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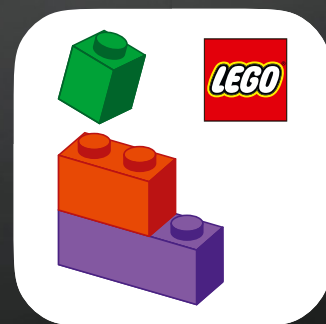


BUILDER



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Unser Fenster zum Universum

Rom wurde nicht an einem Tag gebaut, und es wird Generationen dauern, das Universum zu erforschen, zu verstehen und zu erkunden, dessen Entstehung 13,8 Milliarden Jahre brauchte. In den letzten Jahrzehnten haben enorme technologische Fortschritte dabei geholfen, mehr über die Weite, den Ursprung und die Zusammensetzung zu erfahren, und uns dazu bewegt, über unseren Platz im Universum und in der Zeit nachzudenken. Aufbauend auf jahrhundertelanger wissenschaftlicher Beobachtung und Fortschritt hat das Hubble-Weltraumteleskop in den letzten mehr als 35 Jahren eine entscheidende Rolle bei vielen bahnbrechenden Entdeckungen über unser Universum gespielt.



November 1995

Ein Bild des Adlernebels („Säulen der Schöpfung“) zeigt sternbildende Säulen aus Gas und Staub.

Foto: NASA, ESA/Hubble, STScI, J. Hester und P. Scowen (Arizona State University)



Januar 2005

Die riesige Spiralgalaxie Messier 51, auch bekannt als „Whirlpool-Galaxie“, enthält Hunderte von Milliarden Sternen und aktive Sternentstehungsnebel.

Foto: NASA, ESA, S. Beckwith (STScI) und The Hubble Heritage Team (STScI/AURA)



Juli 2009

Der Schmetterlingsnebel gibt Einblicke in das aus einem sterbenden Stern ausströmende Gas und die Entstehung eines leuchtenden Nebels.

Foto: Die NASA, die ESA und das Hubble SM4 ERO Team



Anmerkungen des LEGO® Icons Designteam

Die atemberaubenden Bilder und Daten des Hubble-Weltraumteleskops haben der Erde die entferntesten Winkel des Universums nähergebracht. Wir fangen gerade erst an, seine historische Bedeutung zu begreifen, und es inspiriert Wissenschaftler nach wie vor und beflügelt die Fantasie der Menschen. Wir wollten dieses Vermächtnis würdigen. Mit diesem Modell im LEGO® Minifiguren-Maßstab kannst du das Innere des Teleskops und verschiedene seiner Instrumente erkunden sowie Elemente der laufenden Mission nachbauen und ausstellen. Jedes Detail wurde in Zusammenarbeit mit unseren großartigen Partnern bei der NASA und der ESA originalgetreu nachgebildet. Mit ihrer Hilfe haben wir ein solides Modell mit vielen Details entwickelt – wie zum Beispiel die optische Evolution der Solarmodule. Der Countdown läuft – mach dich bereit zum Bauen und Entdecken!



Partner vom anderen Stern

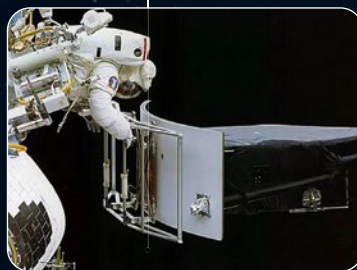
Im Rahmen ihrer Partnerschaft bündeln die NASA und die ESA ihre Ressourcen und Beiträge zum Hubble-Programm, um die Astronomie zu revolutionieren. Sie teilen die Beobachtungsergebnisse. Dabei wird die Beobachtungszeit von einem internationalen Gremium ausschließlich nach wissenschaftlichen Gesichtspunkten vergeben. Der ESA ist ein Anteil von 15 % garantiert, erreicht jedoch häufig fast 25 %. Das Hubble-Weltraumteleskop wurde mit Haltegriffen und austauschbaren Teilen für Wartungsarbeiten im Orbit ausgestattet. 1993 bis 2009 führten Astronauten der NASA und der ESA mehrere Wartungsmissionen (SM) durch, um umfangreiche Modernisierungen und Reparaturen vorzunehmen.

1987 1988 1989 **1990** 1991 1992 **1993** 1994 1995 1996 **1997** 1998



24. – 29. April 1990

Start – Das Space Shuttle Discovery brachte das Hubble-Weltraumteleskop ins All.



2. – 13. Dezember 1993

SM1 – Das Teleskop wurde aufgerüstet und ein Fehler im Hauptspiegel des Hubble-Teleskops behoben, um die sphärische Aberration für die übrigen Instrumente des Hubble-Teleskops zu korrigieren.

11. – 21. Februar 1997

SM2 – Erweiterung des für das Hubble-Weltraumteleskop sichtbaren Wellenlängenbereichs durch einen neuen Bildspektrographen für Weltraumteleskope (STIS) sowie eine Nahinfrarotkamera und ein Multi-Objekt-Spektrometer (NICMOS).



1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

2009

2010



19. – 27. Dezember 1999

SM3A – Der vierte Kreisel des Hubble-Teleskops fiel aus und musste in den Sicherheitsmodus versetzt werden. Im Rahmen einer zweiteiligen Mission arbeiteten die amerikanischen und die europäischen Besatzungsmitglieder der SM3A gemeinsam daran, den Betrieb wiederherzustellen.



1. – 12. März 2002

SM3B – Es wurden zwei neue Solarpaneele installiert und die Faint Object Camera (das letzte noch vorhandene Originalinstrument) wurde durch die Advanced Camera for Surveys (ACS) ersetzt.

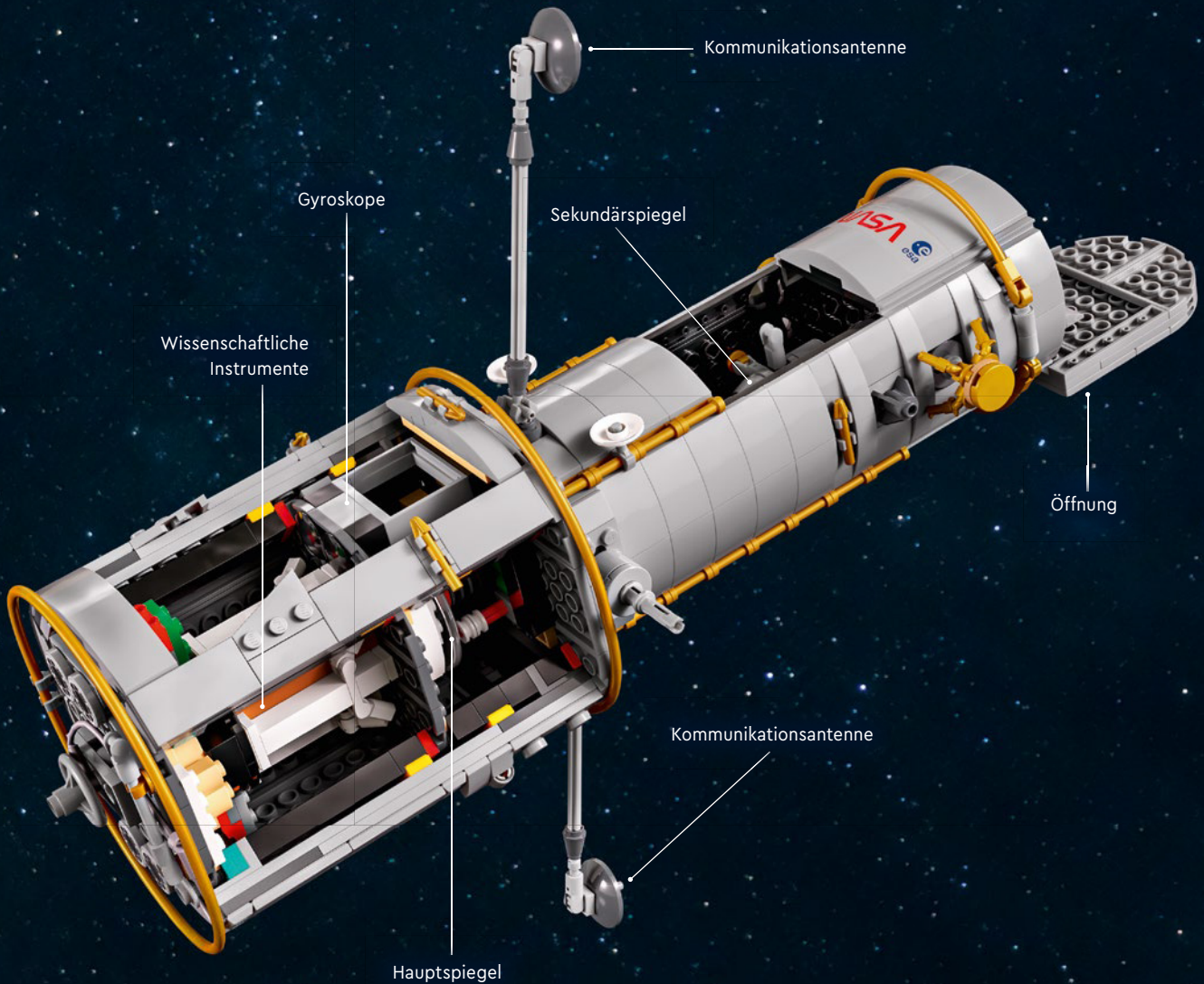


11. – 24. Mai 2009

SM4 – Installation des Cosmic Origins Spectrograph (COS) und der Wide Field Camera 3 (WFC3), eines überholten Feinausrichtungssensors sowie einer Vorrichtung zum Andocken an das Hubble-Teleskop.

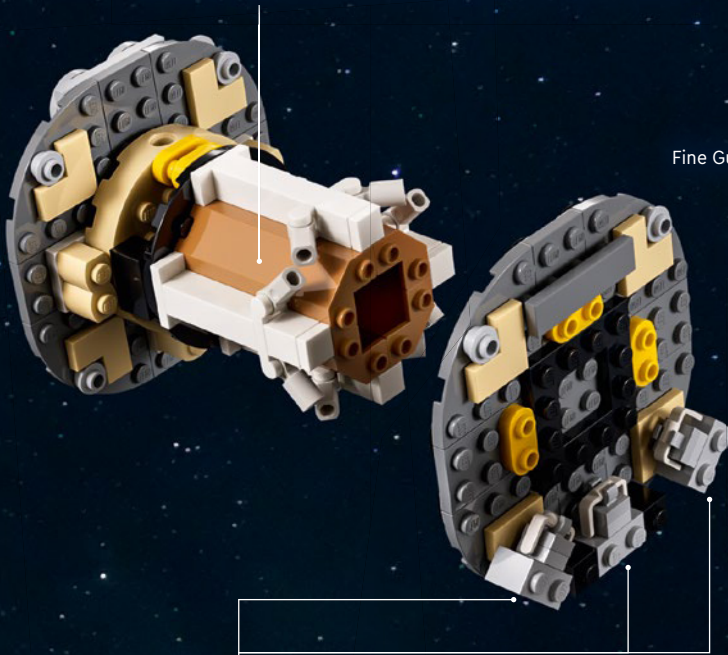
Erkunde dein Modell

In enger Zusammenarbeit mit unseren Partnern bei der NASA und der ESA haben wir authentische technische Details innen und außen originalgetreu nachgebildet. Jeder Abschnitt des Modells entspricht realen Instrumenten, die dazu beigetragen haben, bemerkenswerte neue Erkenntnisse über unser Universum zu gewinnen.





Space Telescope Imaging Spectrograph (STIS)
Cosmic Origins Spectrograph (COS)
Advanced Camera for Surveys (ACS)
Near Infrared Camera and Multi-Object Spectrometer (NICMOS)



Fine Guidance Sensors (FGS)

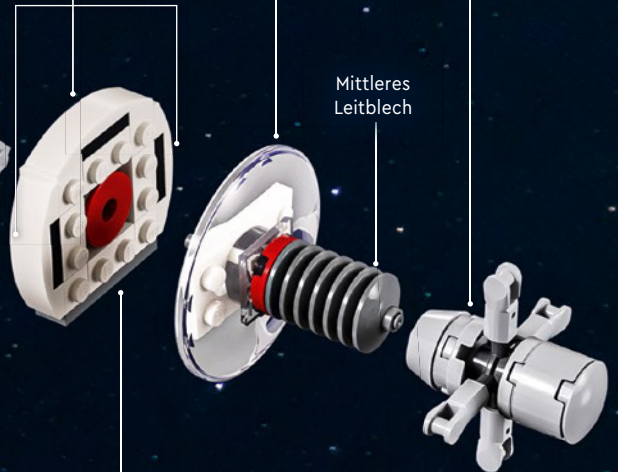
Sekundärspiegel

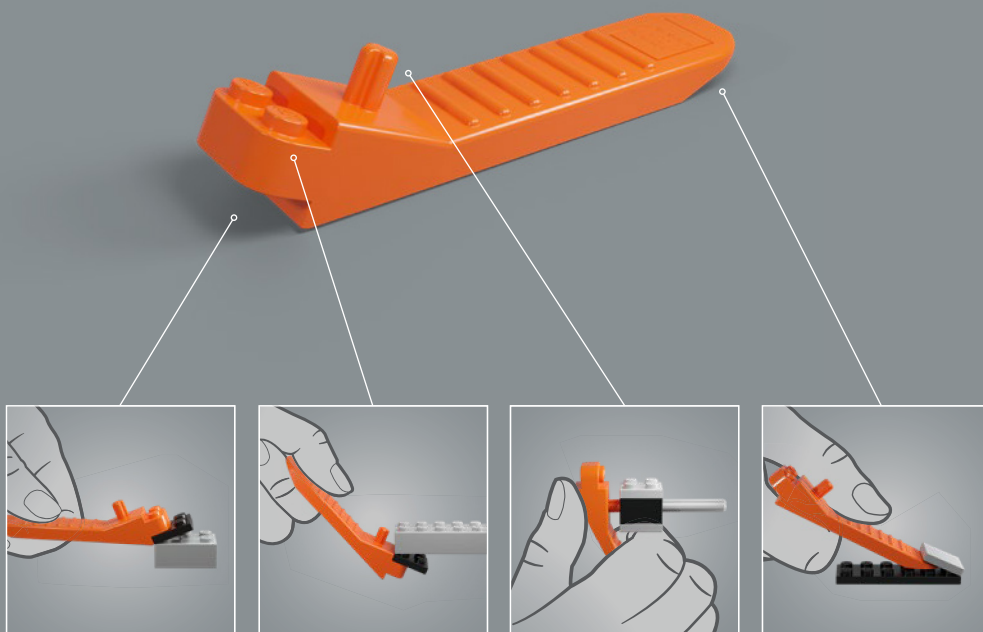
Hauptspiegel

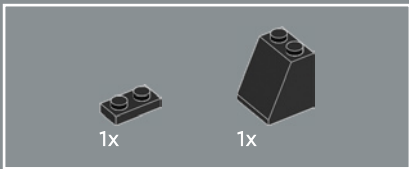
Mittleres
Leitblech

Gyroskope

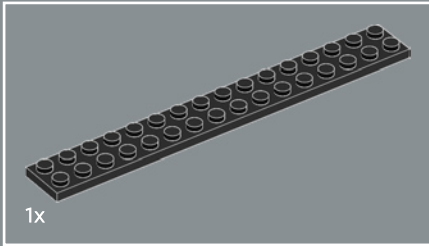
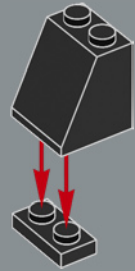
Weitwinkelkamera



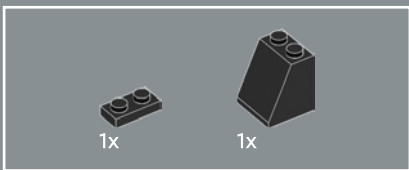
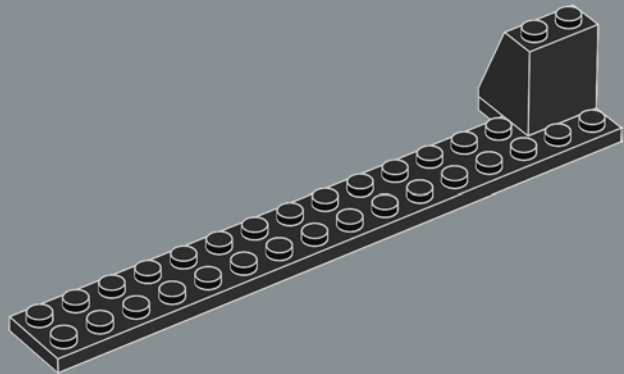




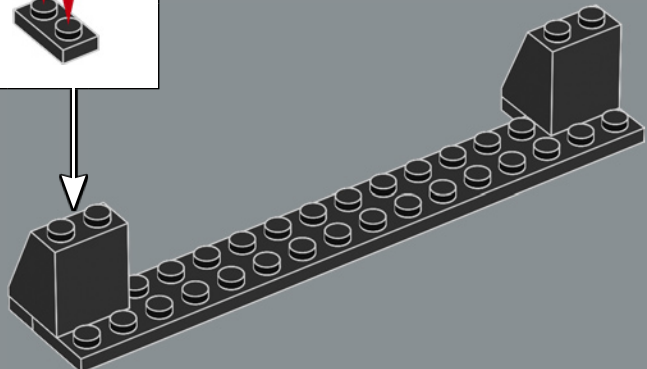
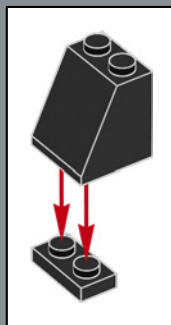
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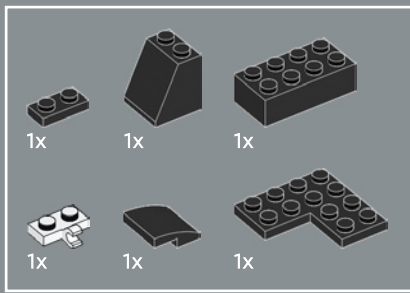


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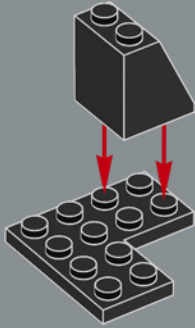
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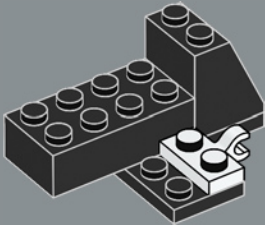


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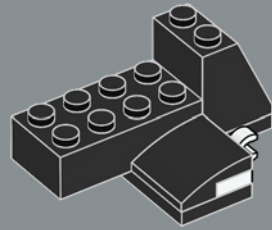
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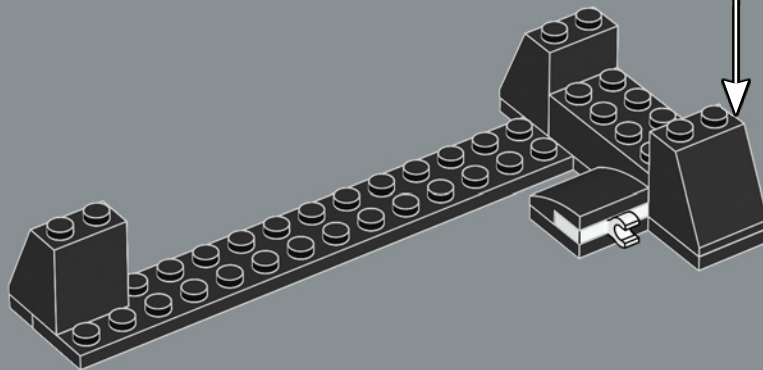
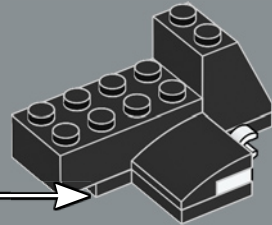
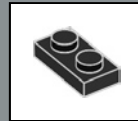
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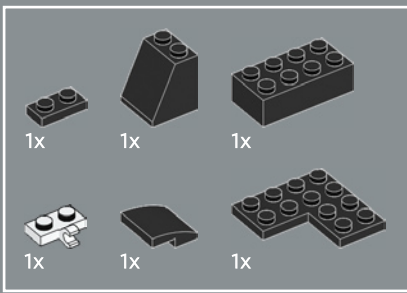


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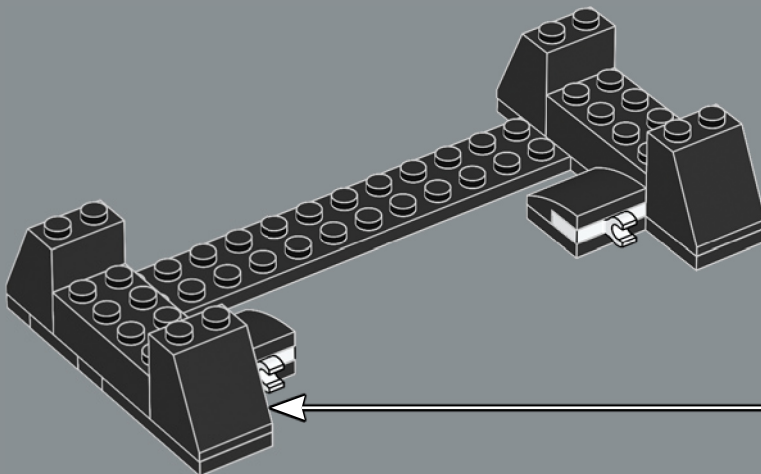
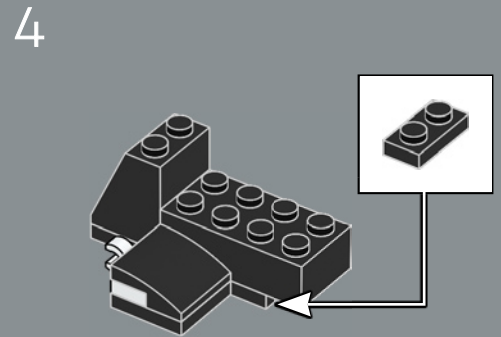
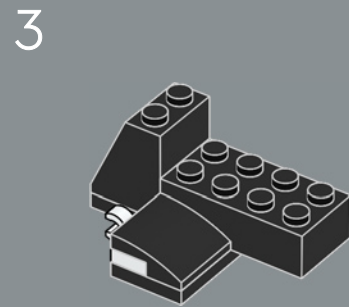
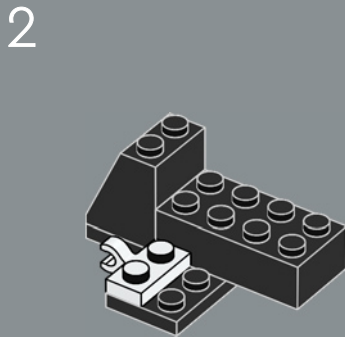
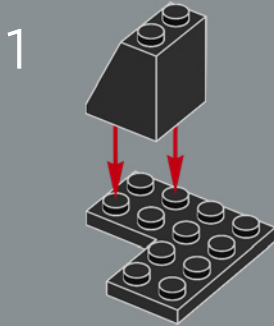


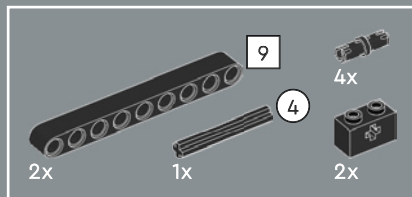
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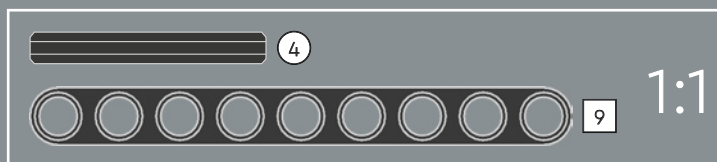
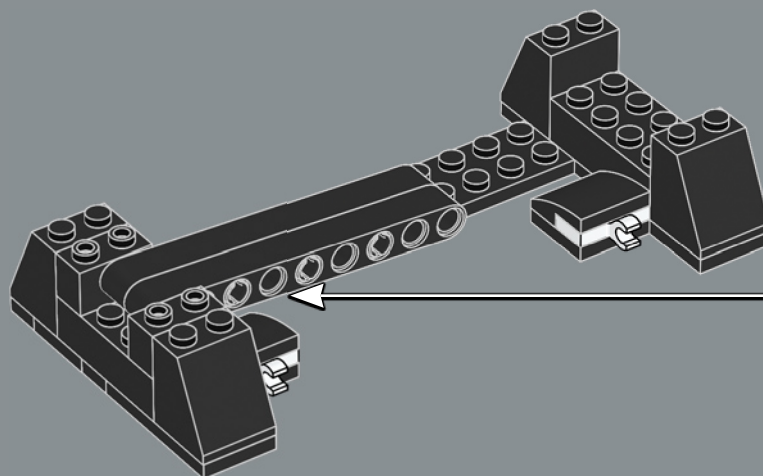
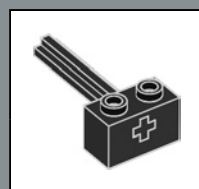
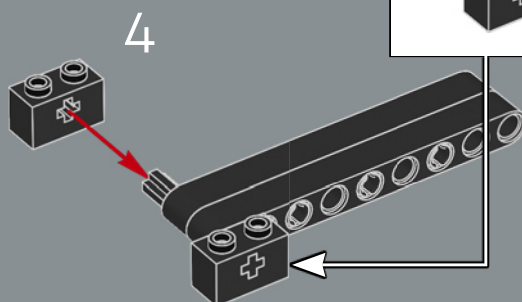
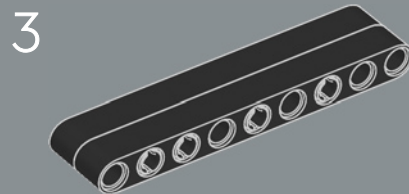
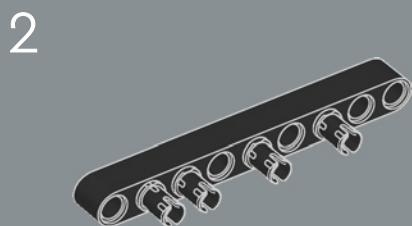
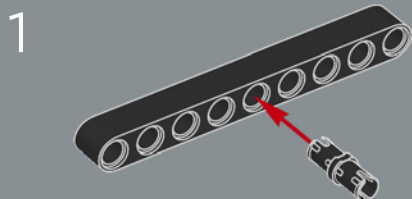


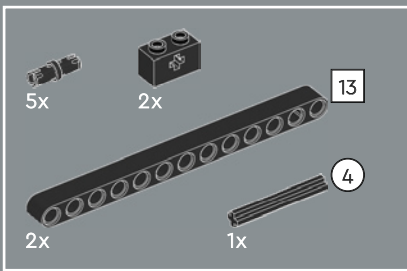
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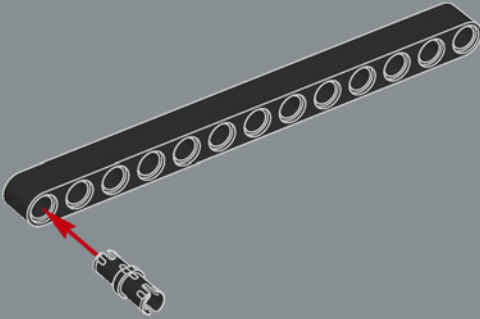
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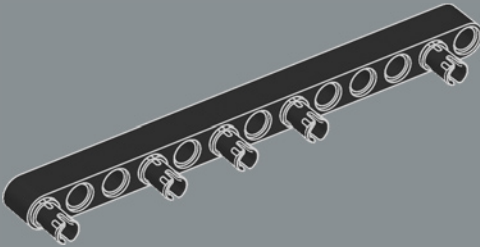


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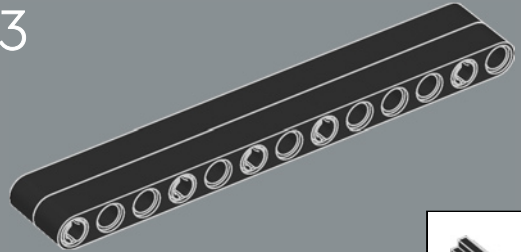
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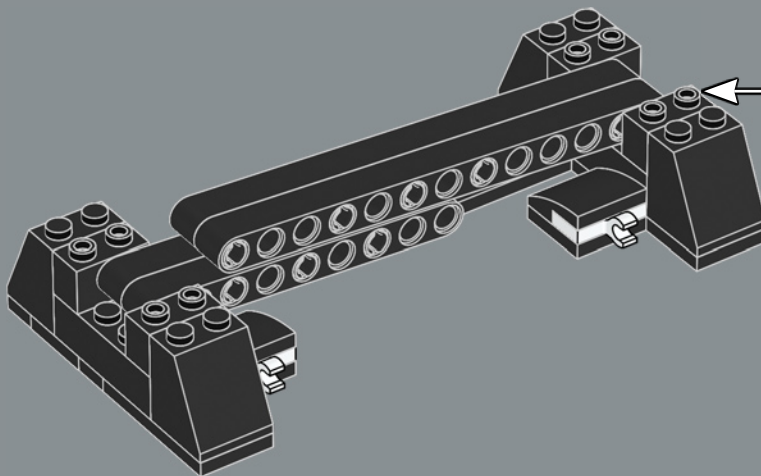
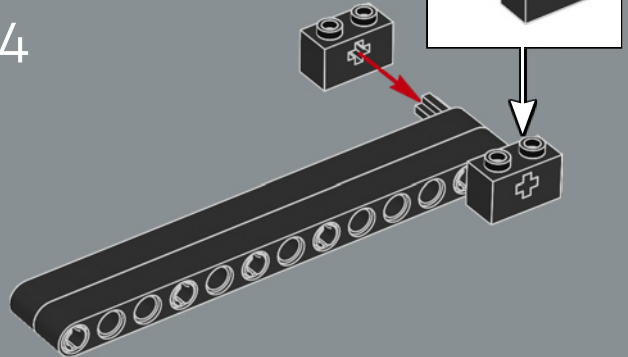
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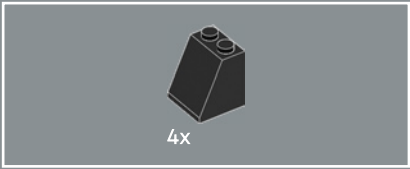


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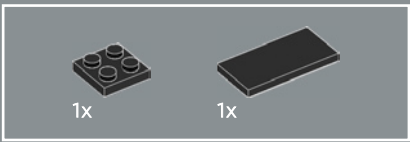
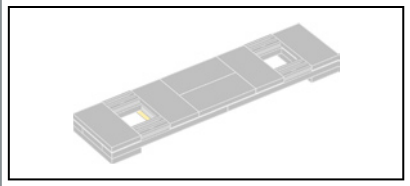
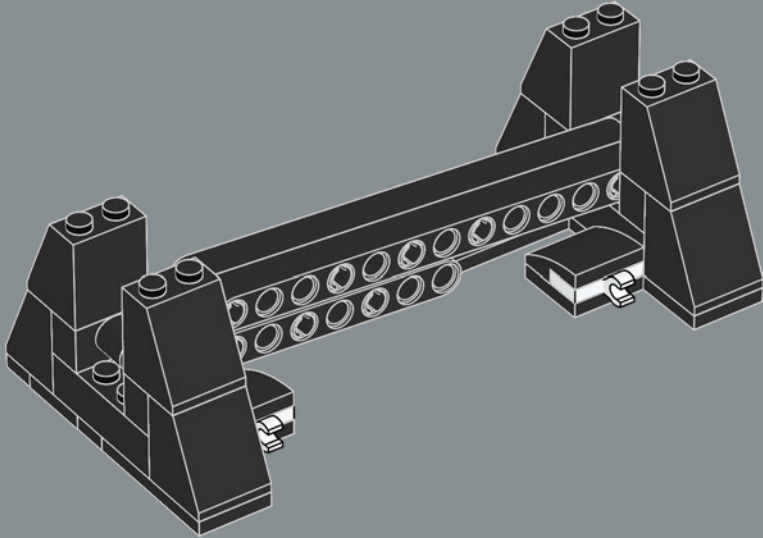


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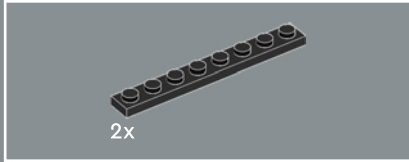
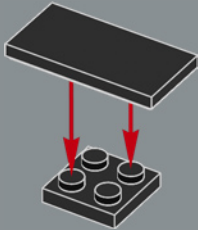




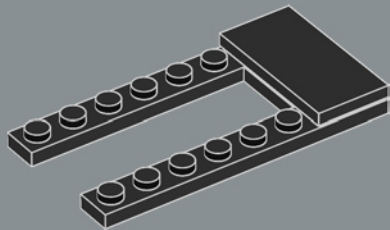
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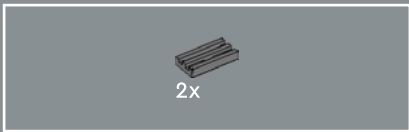


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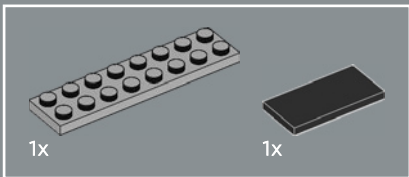
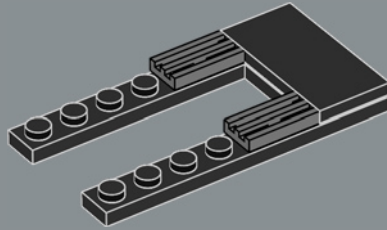


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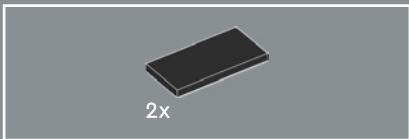
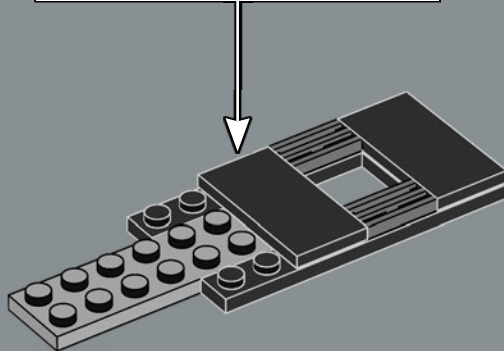
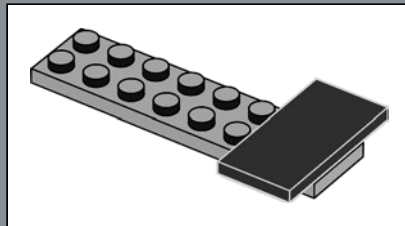




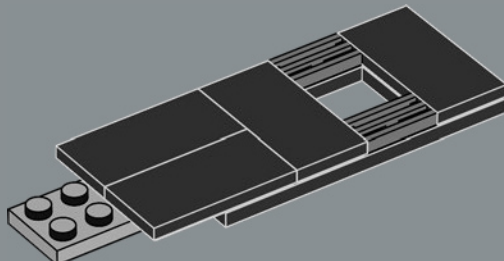
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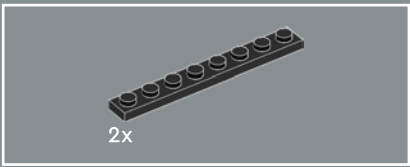


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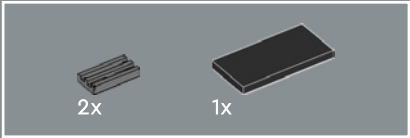
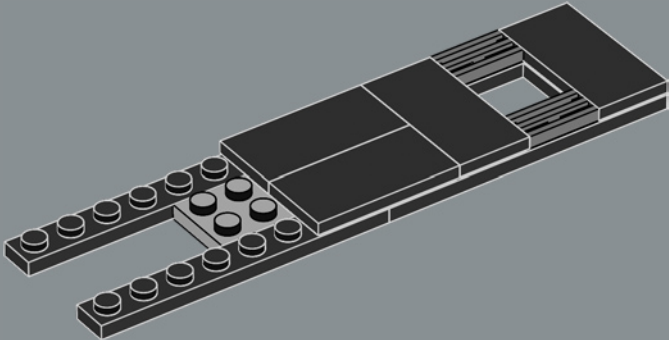


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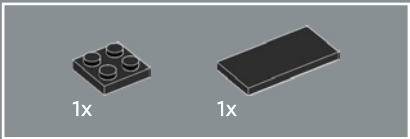
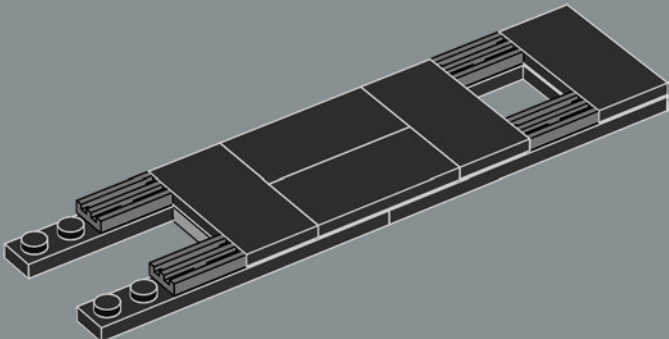




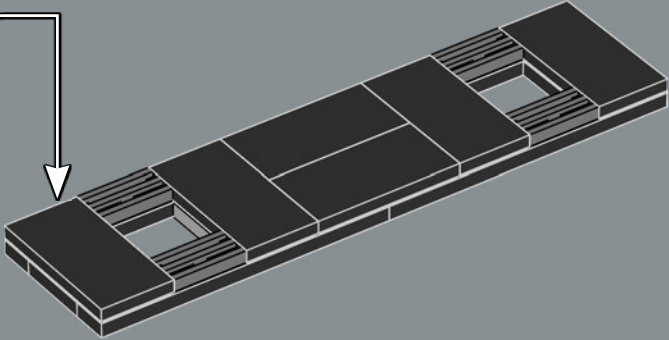
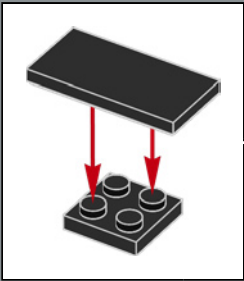
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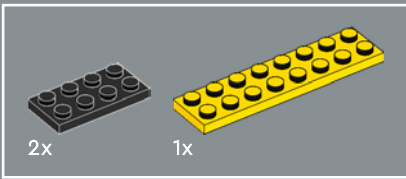


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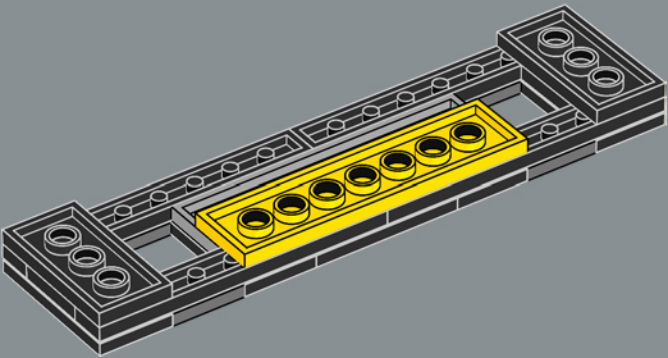


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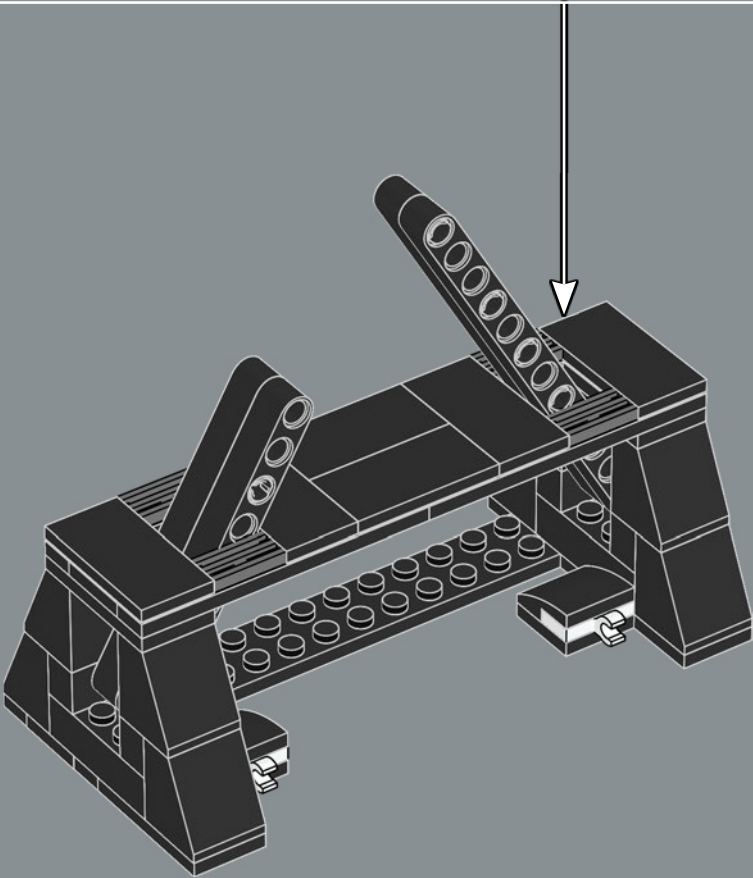


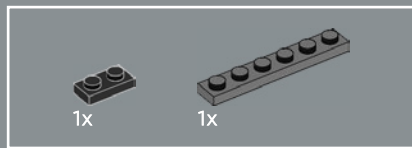


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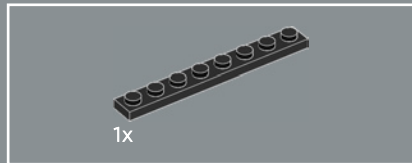
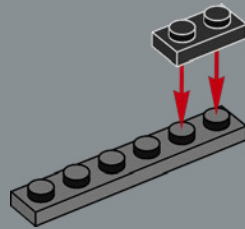


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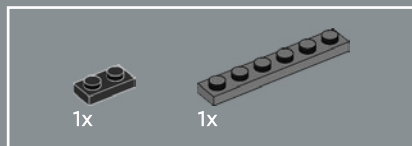
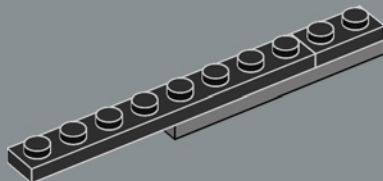




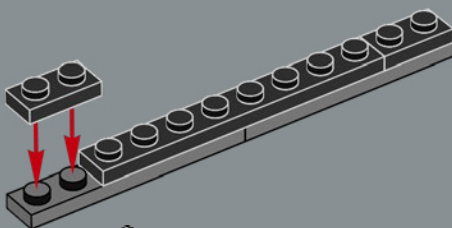
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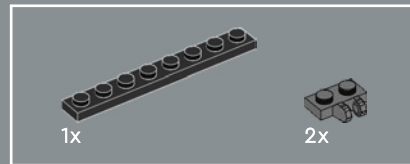
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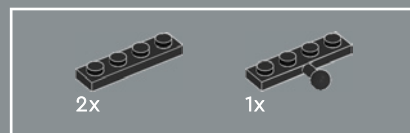
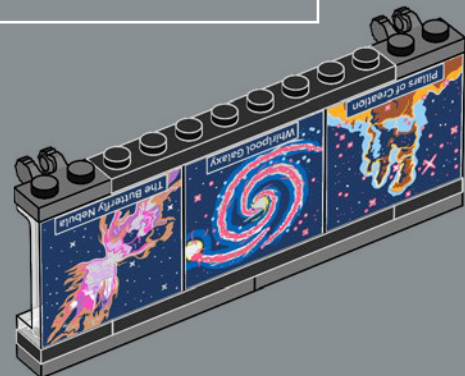
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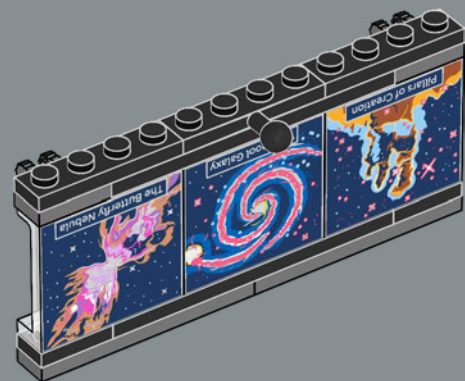
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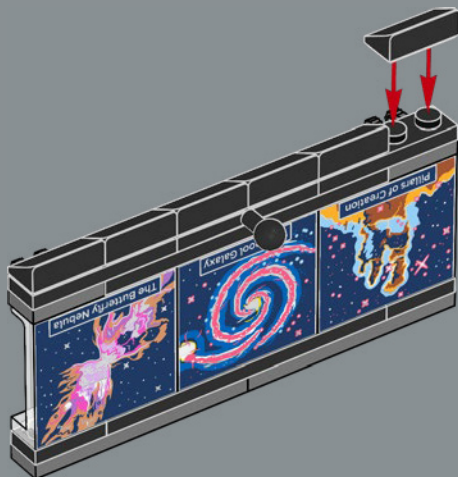
24





6x

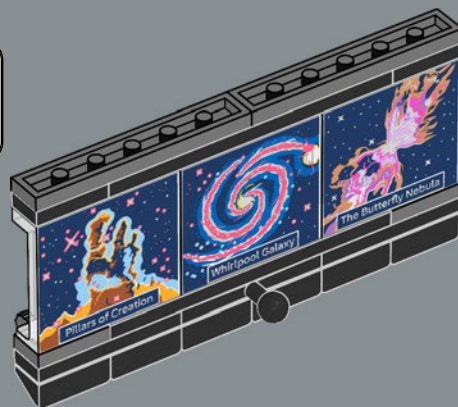
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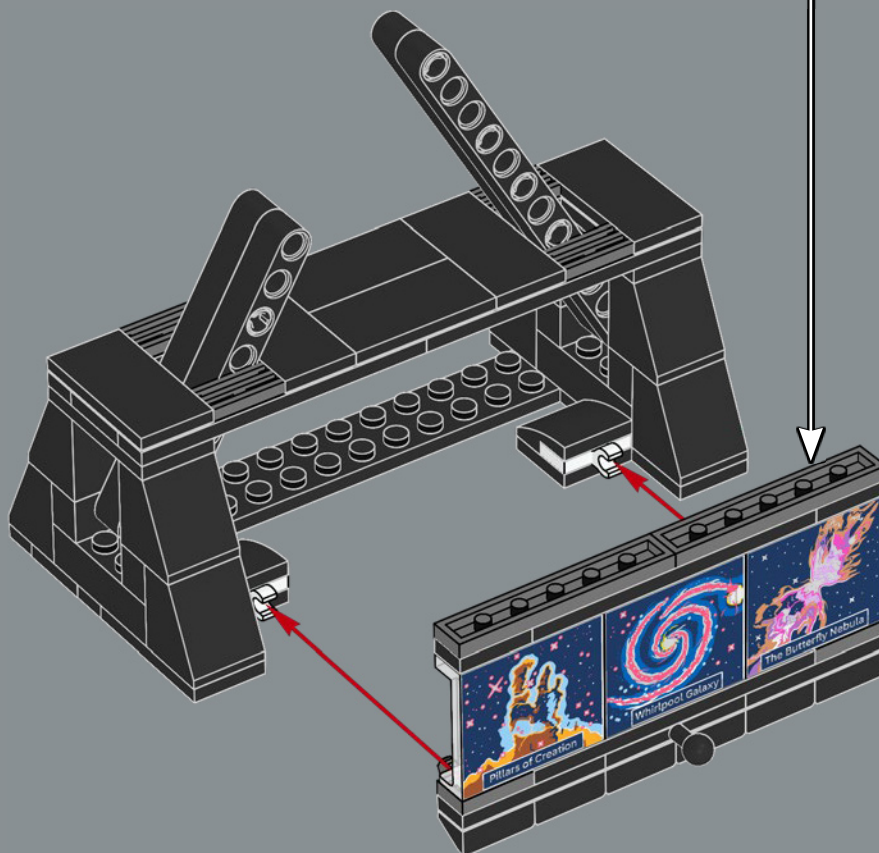
Mit seinen bekannten Deep-Field-Aufnahmen blickte das Hubble-Weltraumteleskop weiter in den Weltraum – und weiter zurück in die Vergangenheit – als jedes Teleskop zuvor.

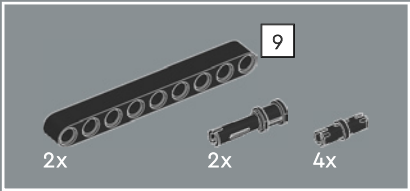


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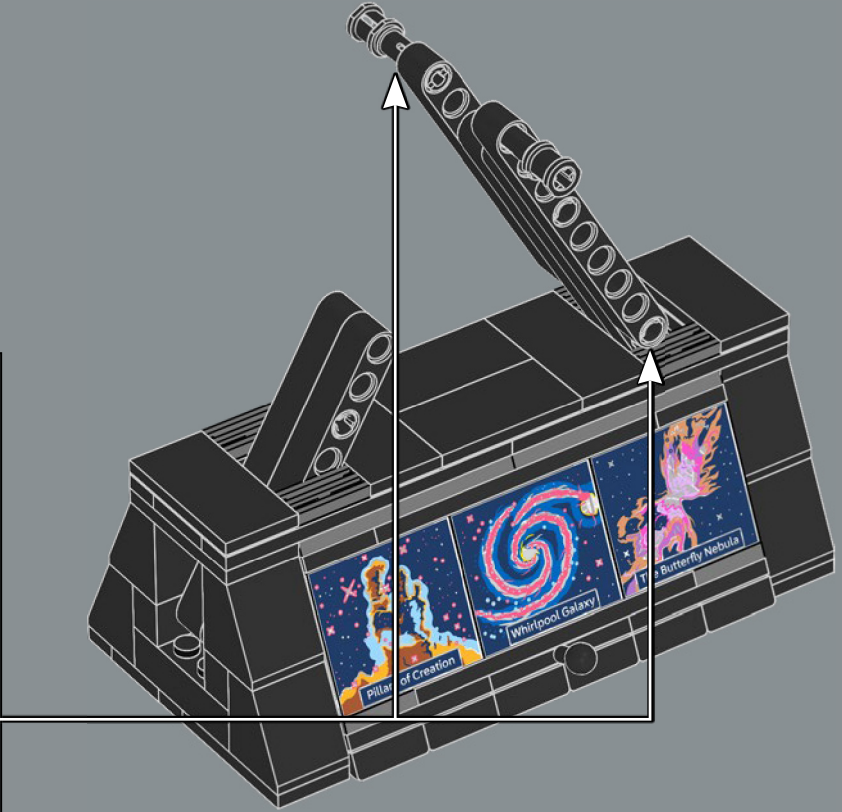
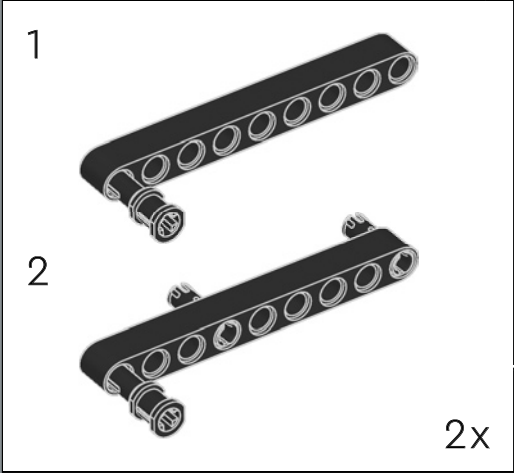


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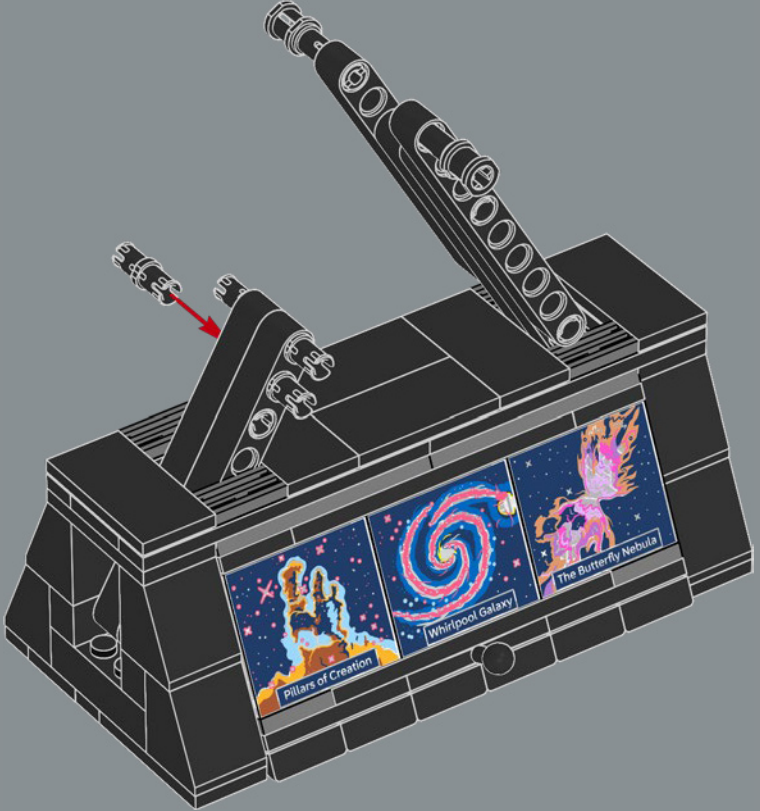


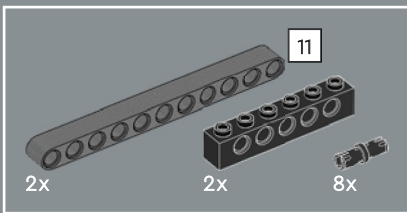


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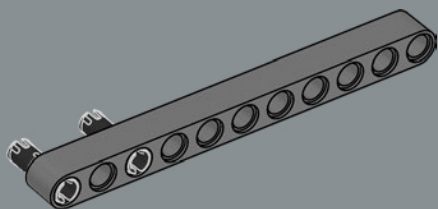
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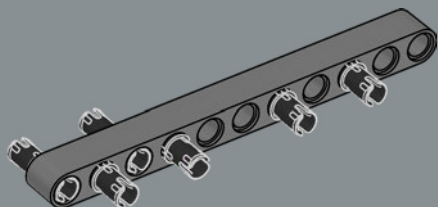


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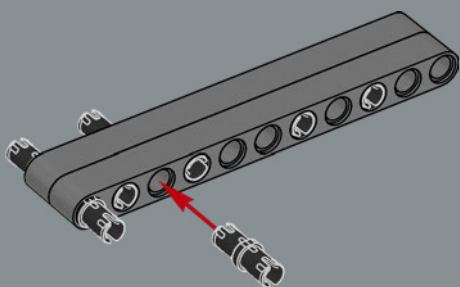
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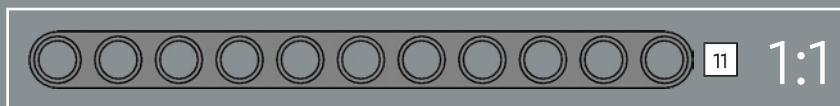
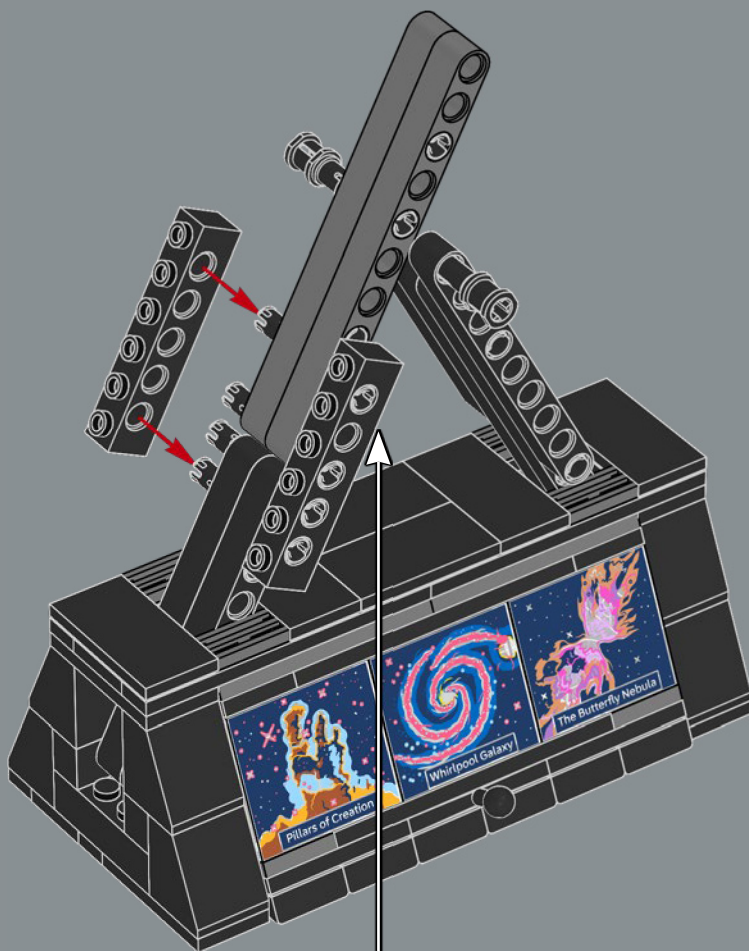
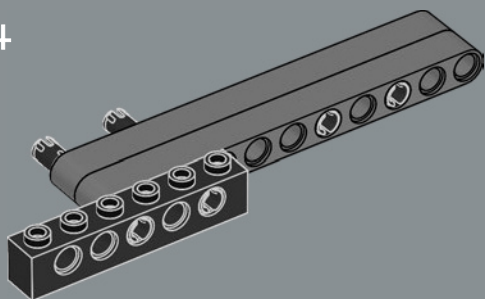
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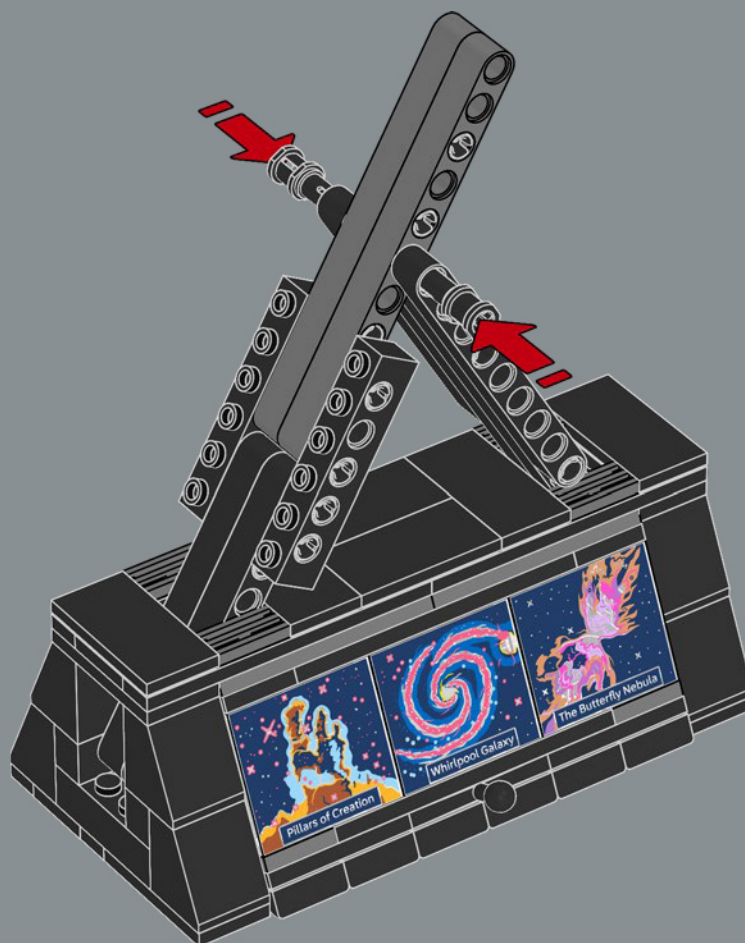
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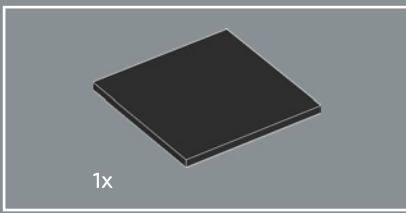


Seit 1990 hat das Hubble-Weltraumteleskop mehr als 1,7 Millionen Beobachtungen aufgezeichnet und Daten von über 108.000.000 astronomischen Objekten gesammelt.

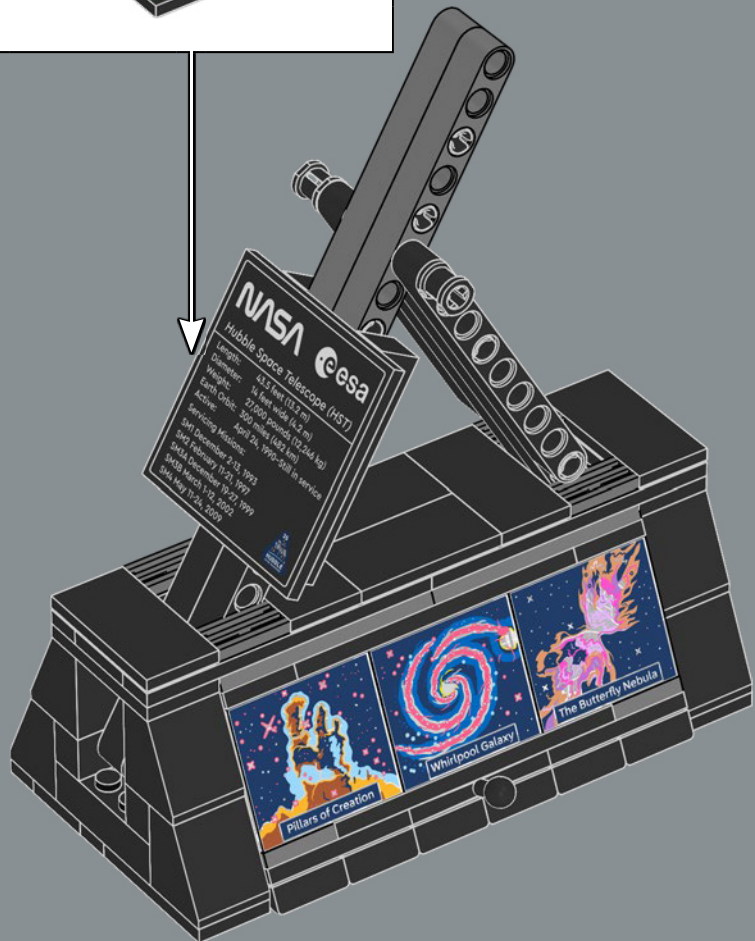
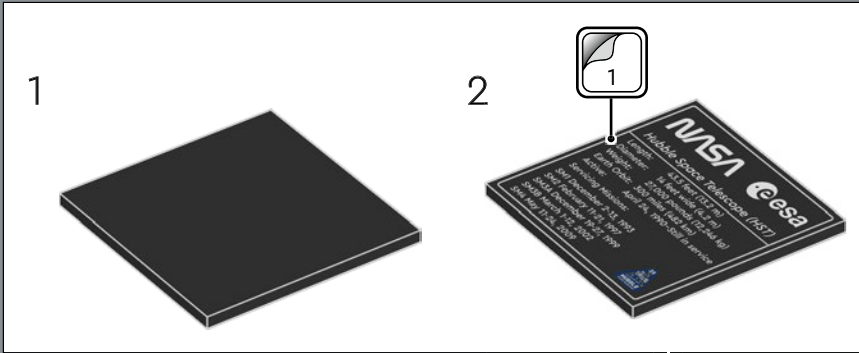


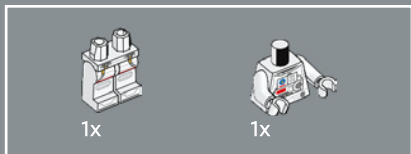
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32

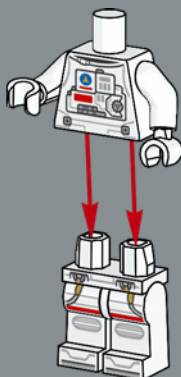




Auch nach mehr als 35 Jahren im Orbit liefert das Hubble-Weltraumteleskop weiterhin bahnbrechende wissenschaftliche Erkenntnisse und hat andere Teleskope wie das James-Webb-Weltraumteleskop inspiriert.

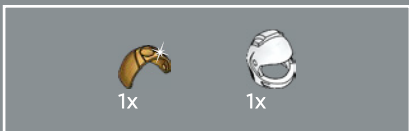
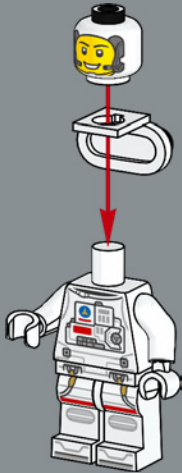


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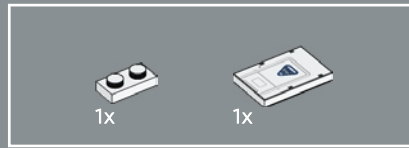
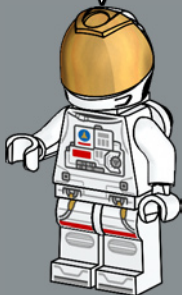
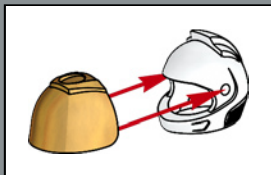




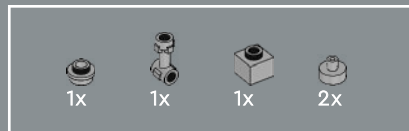
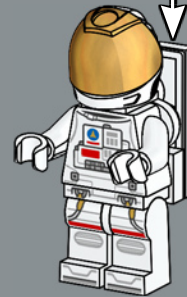
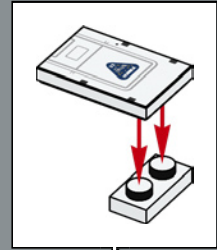
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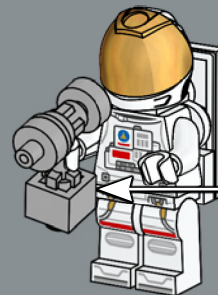
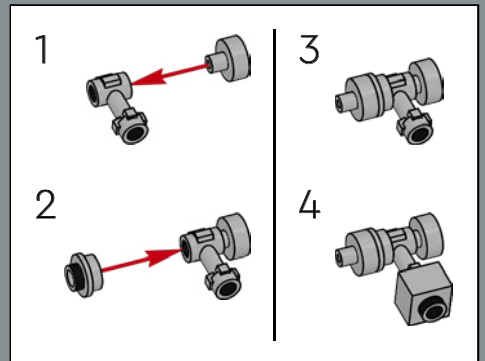
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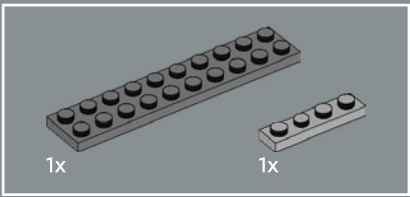


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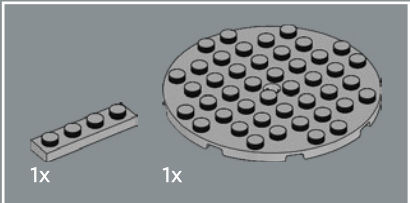
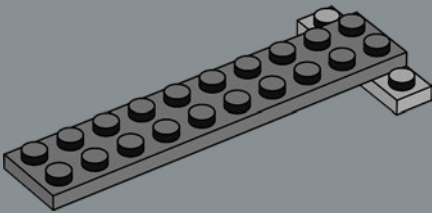


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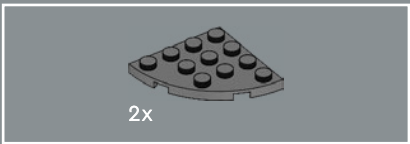
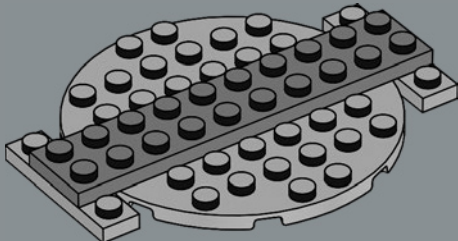




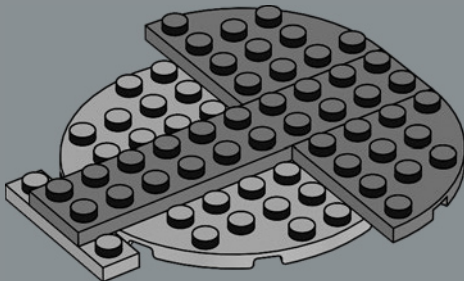
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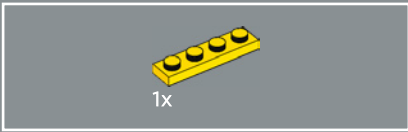


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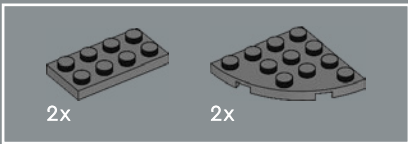
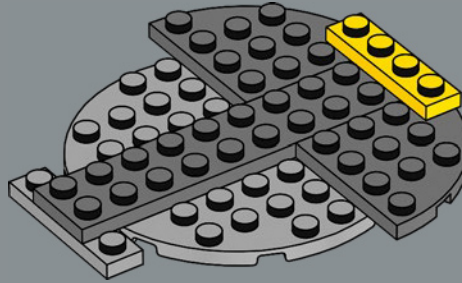


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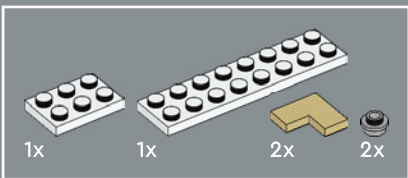
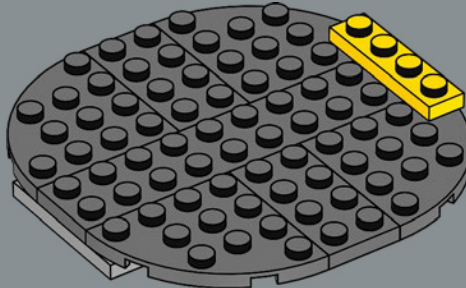




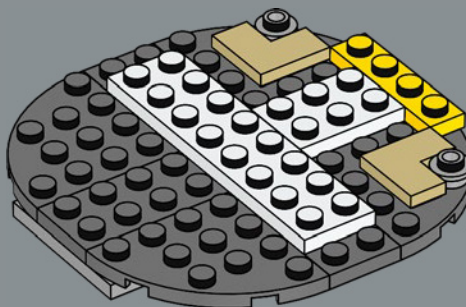
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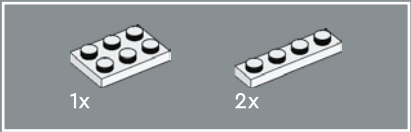


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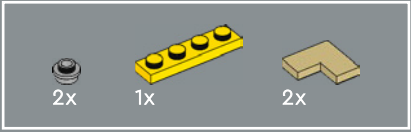
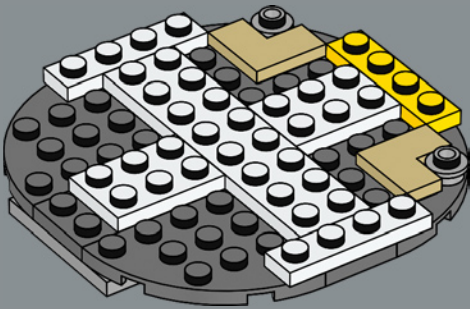


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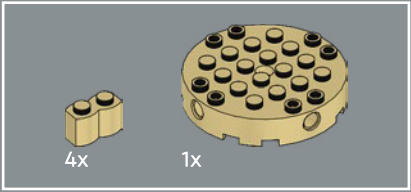
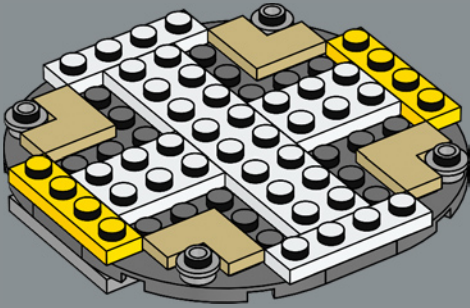




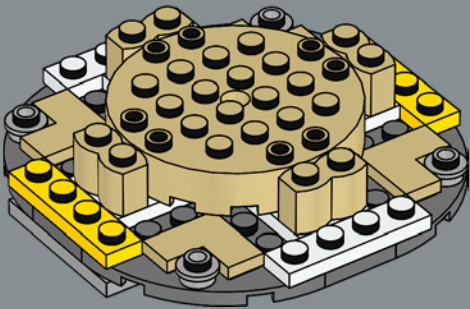
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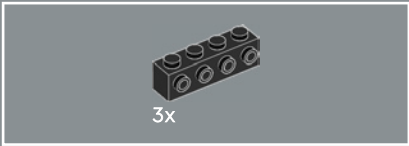


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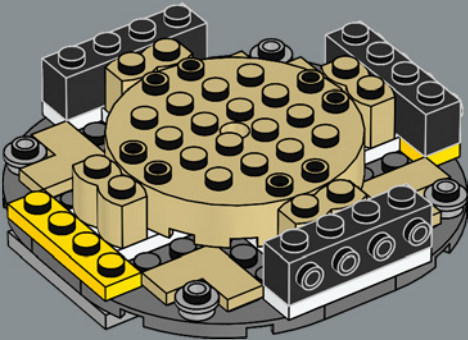


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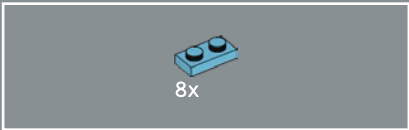
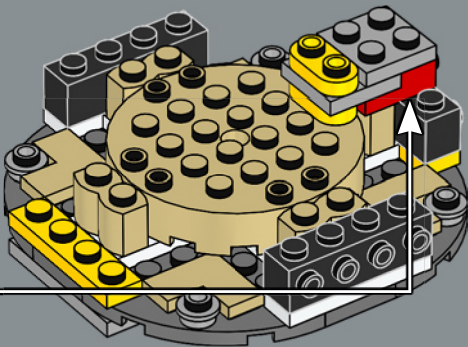
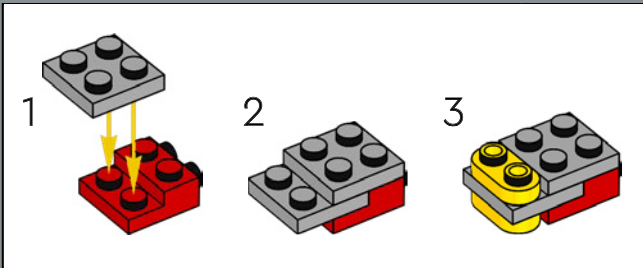




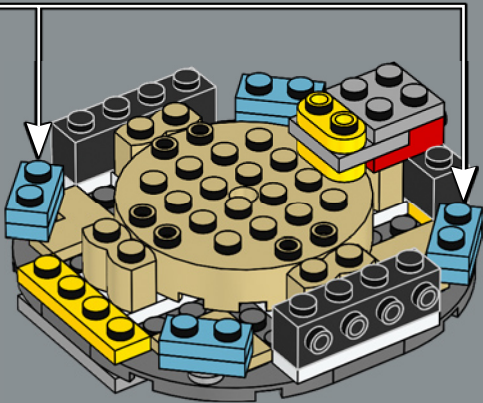
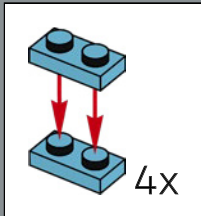
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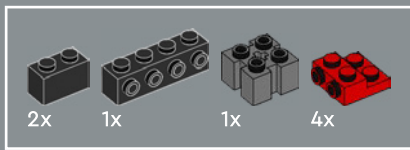


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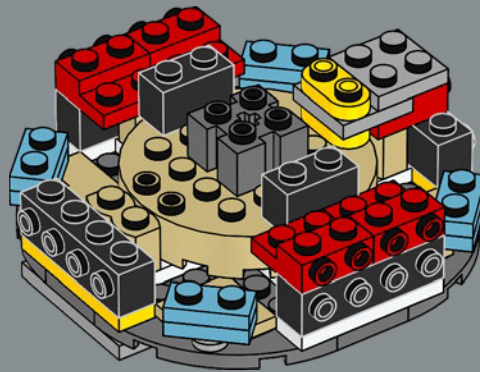


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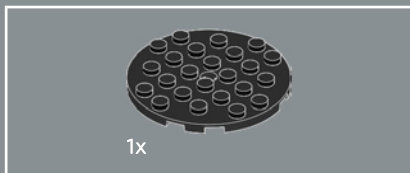
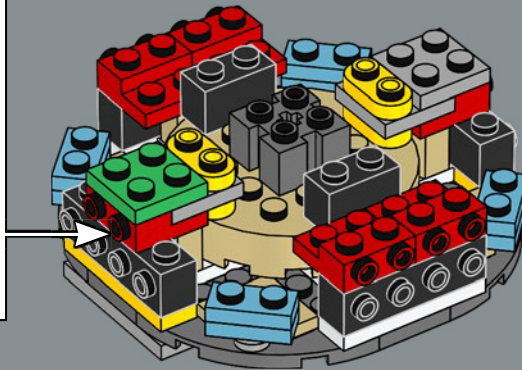
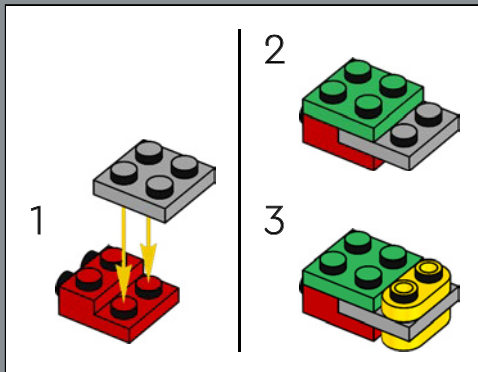




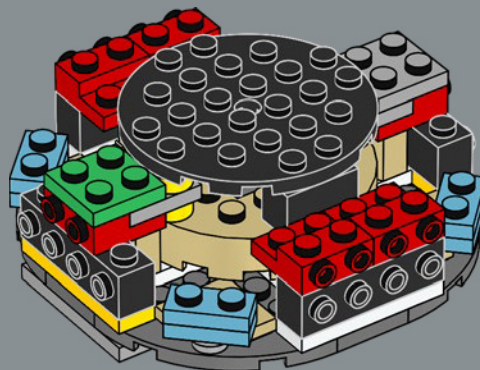
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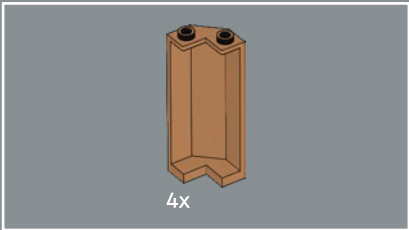
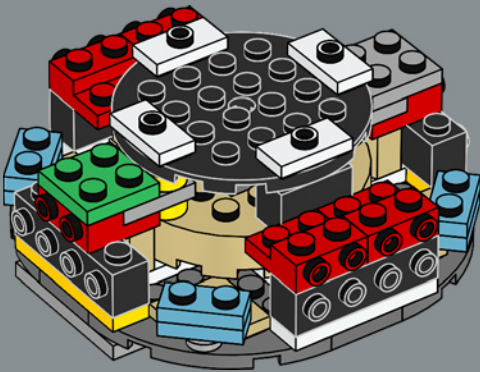


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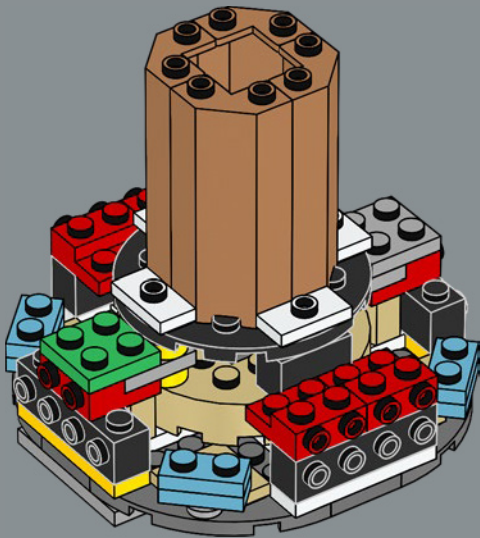


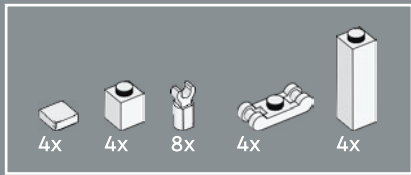


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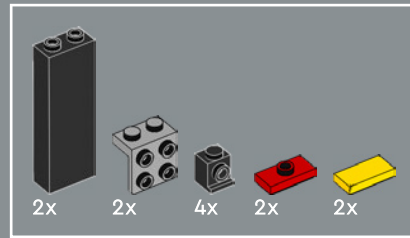
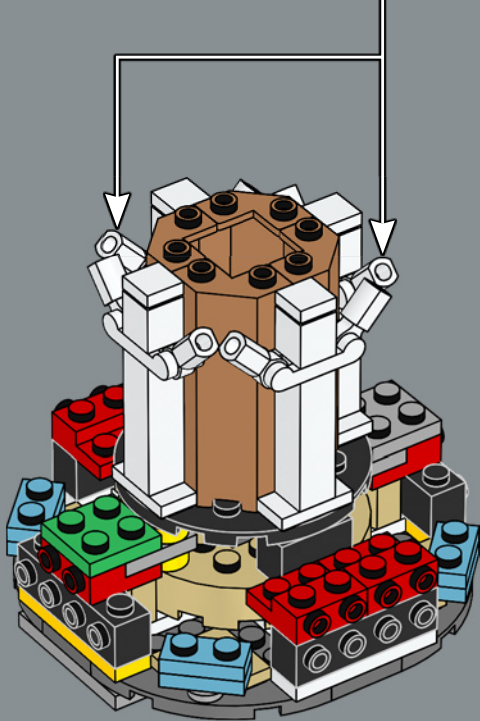
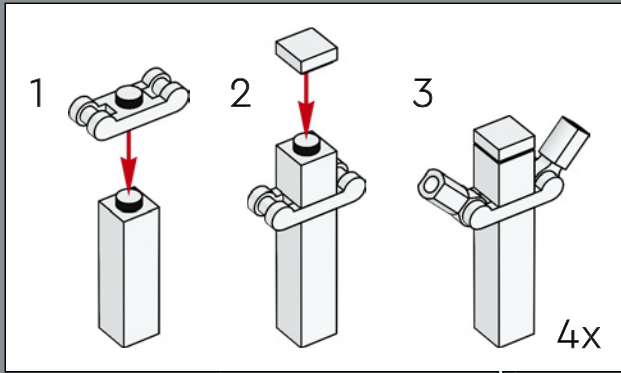


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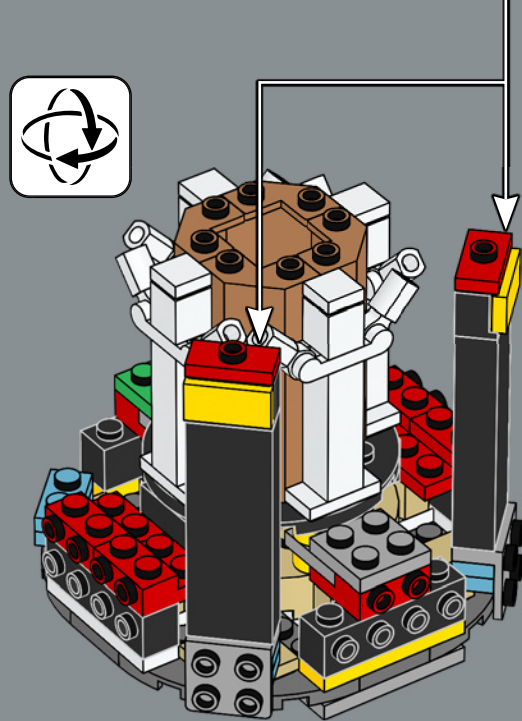
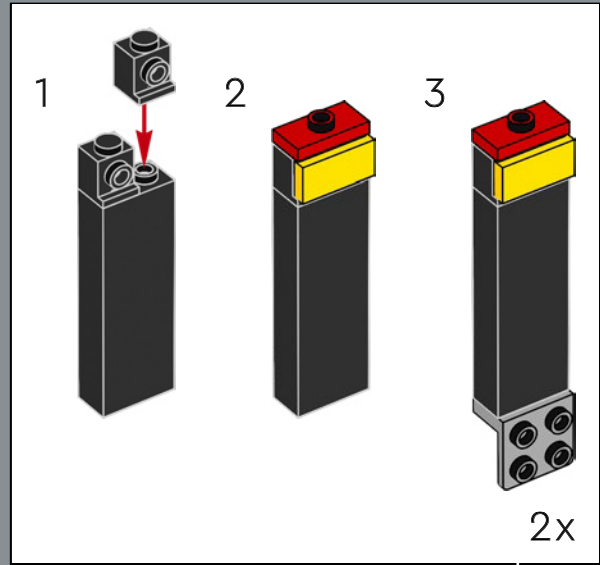


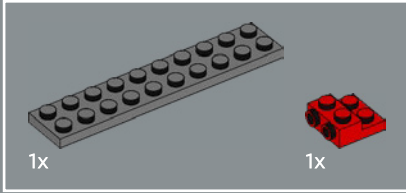
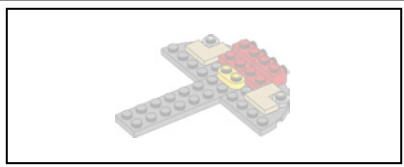


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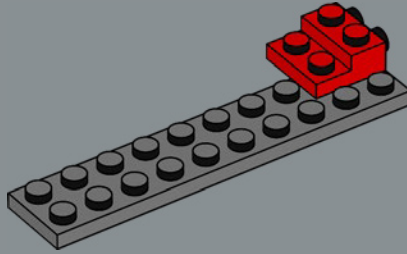


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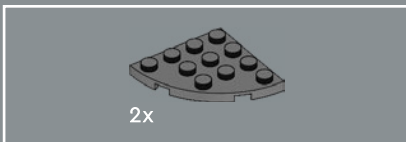
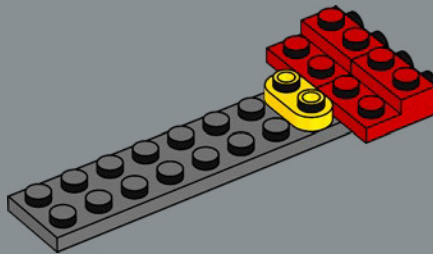




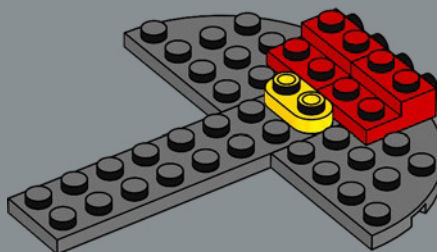
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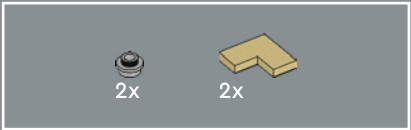


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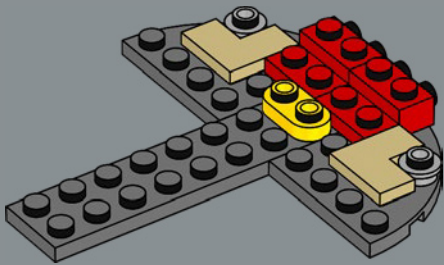


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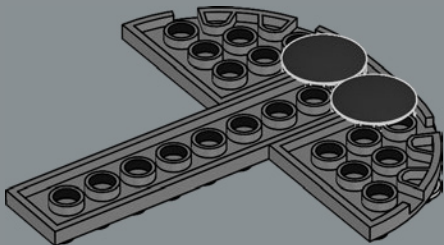




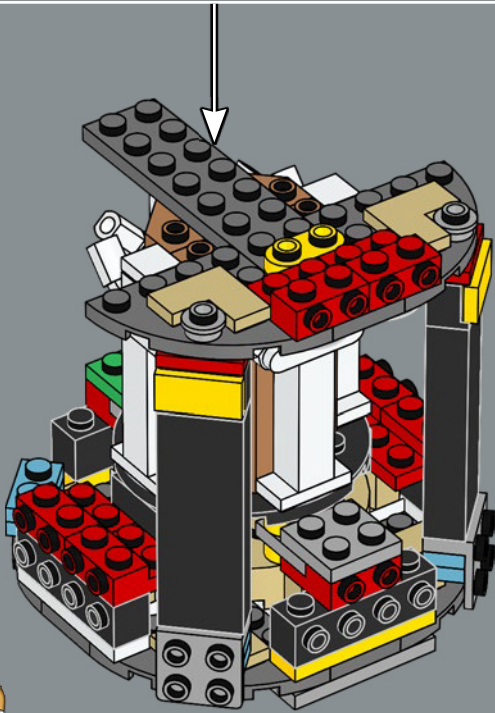
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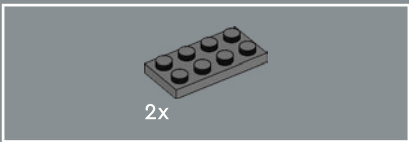


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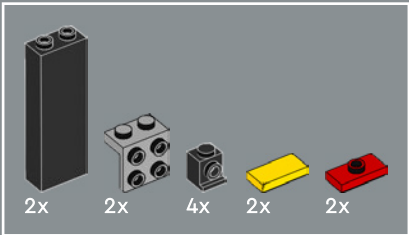
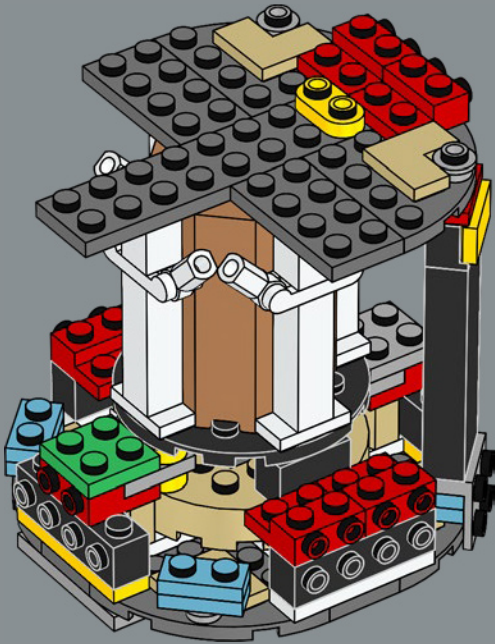


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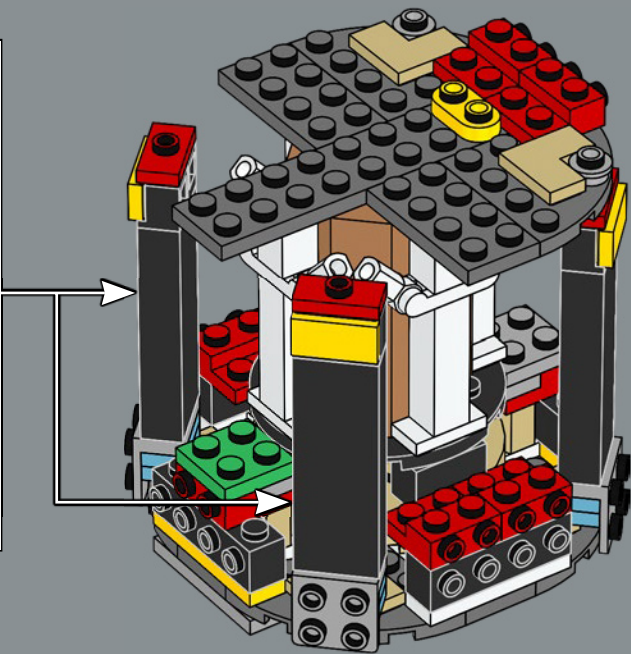
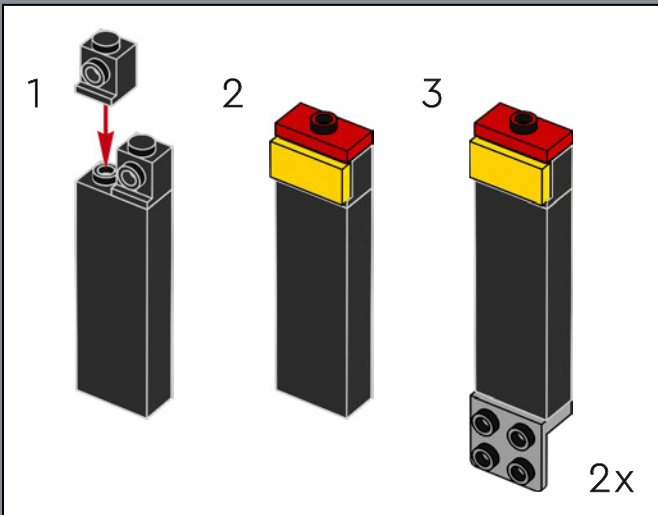


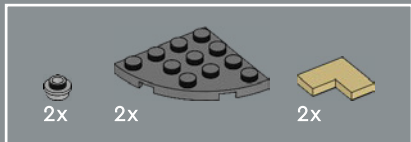


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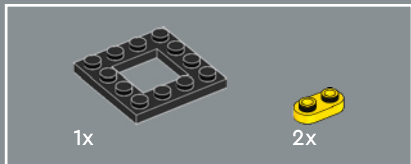
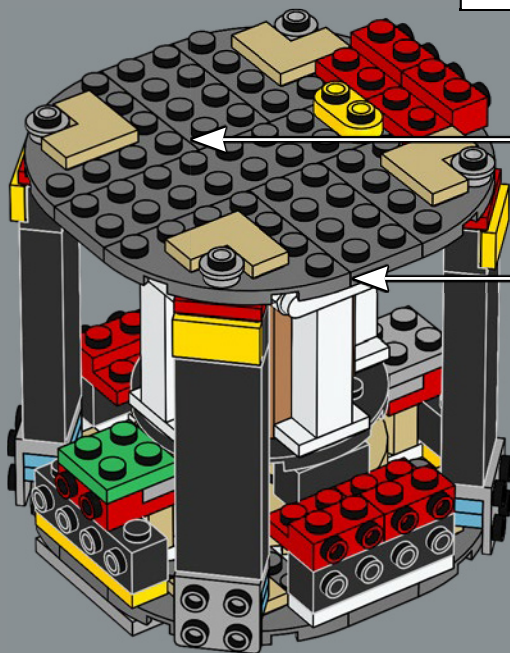
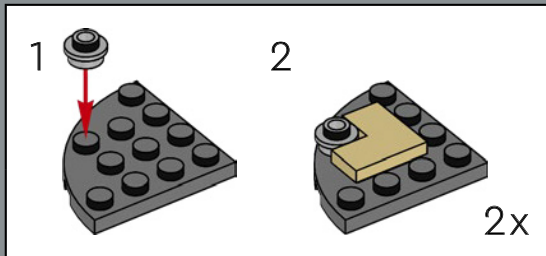


64





65



66



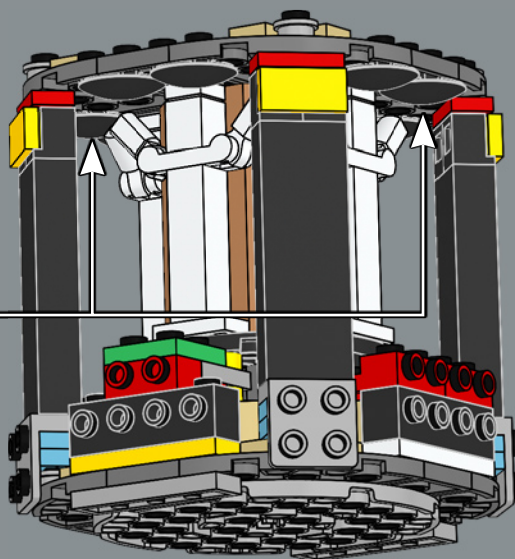


6x

67



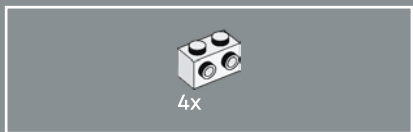
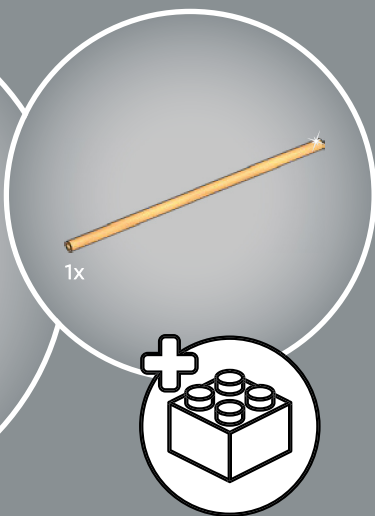
6x



4x

68

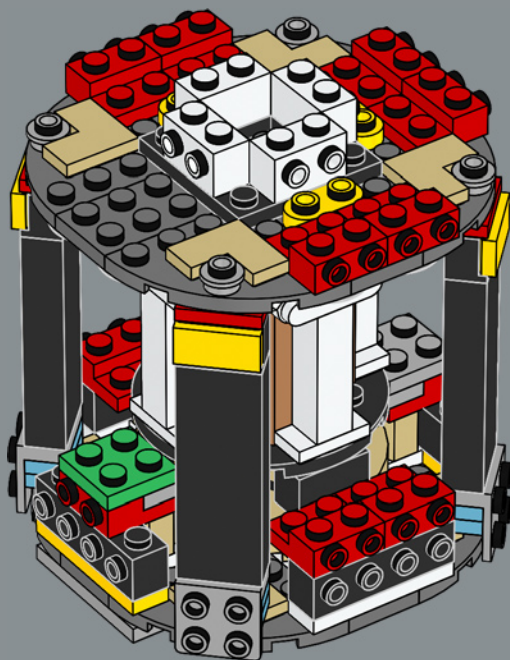




Mithilfe der Gravitationslinsenwirkung erstellte Hubble
Karten der unsichtbaren Dunklen Materie im Universum.



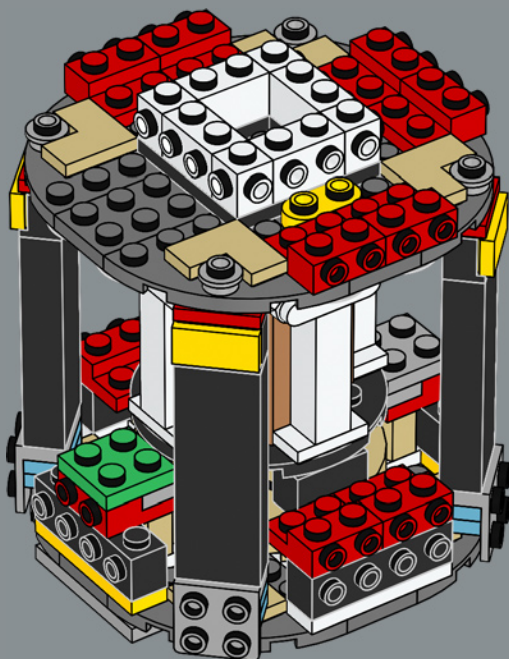
69





4x

70

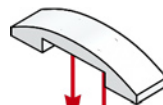
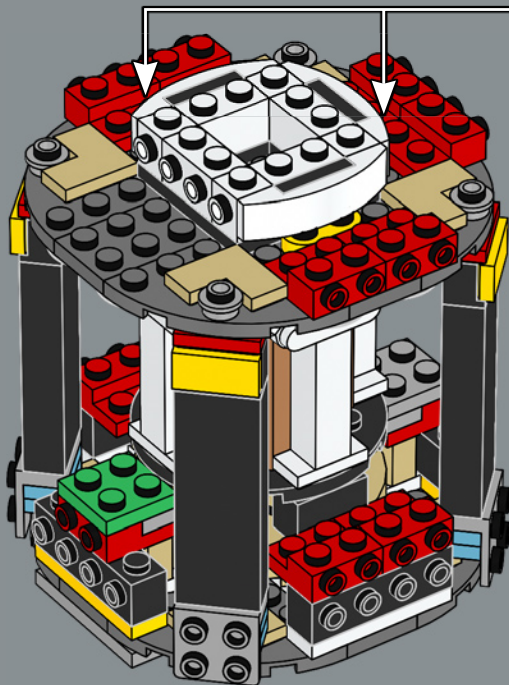


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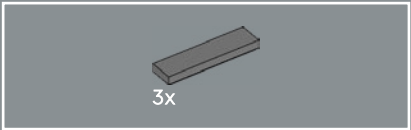


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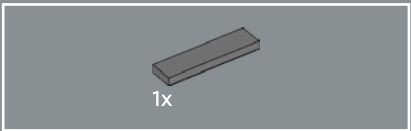
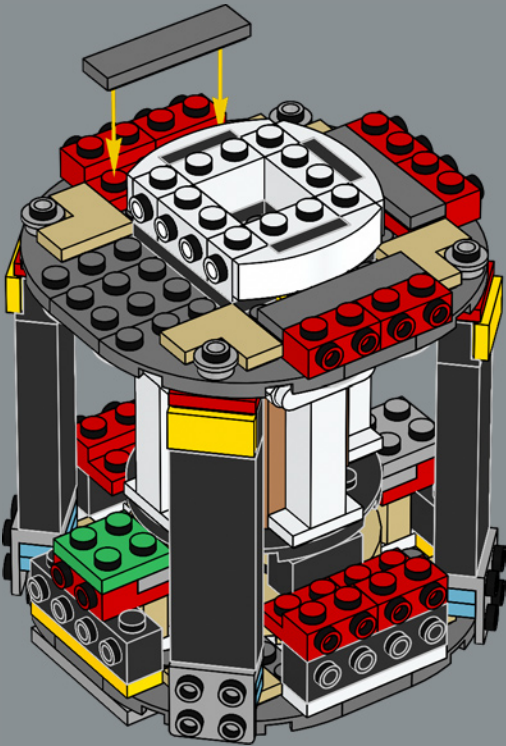
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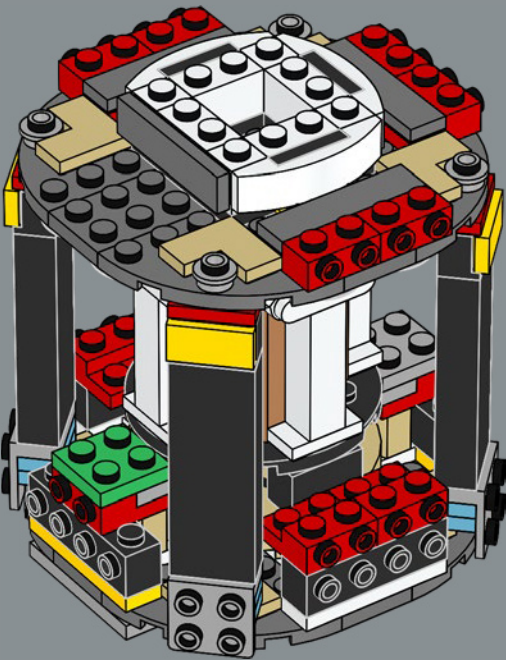
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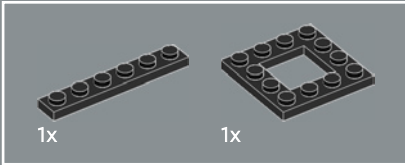
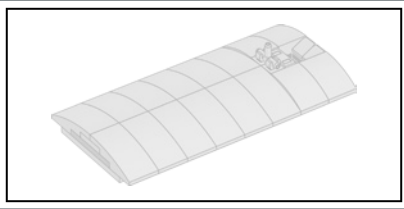


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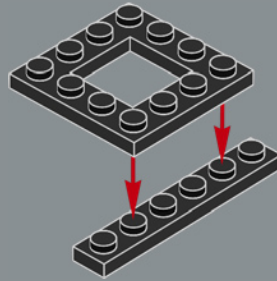


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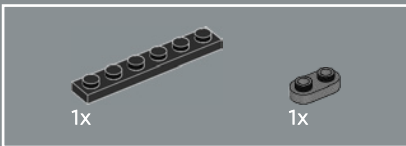
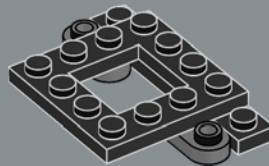




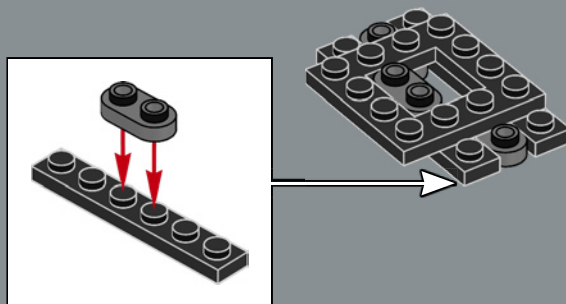
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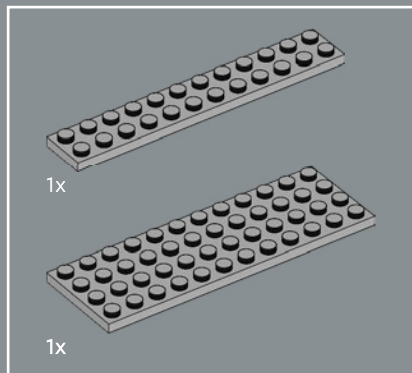


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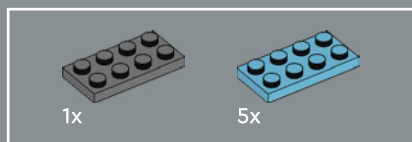
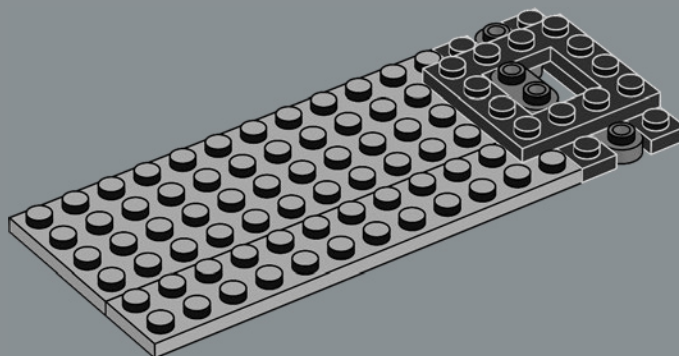


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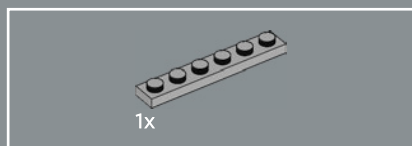
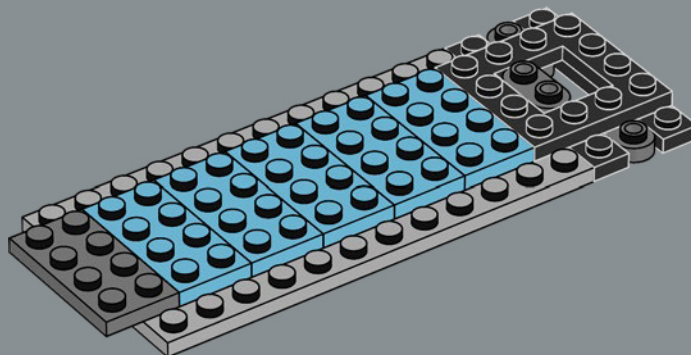




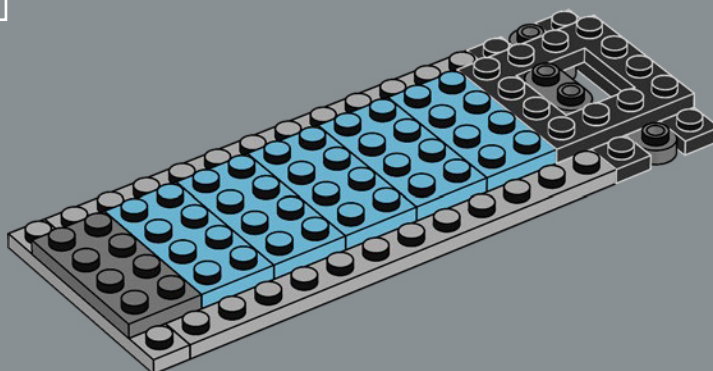
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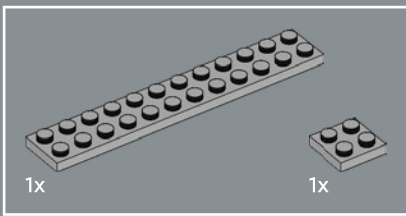


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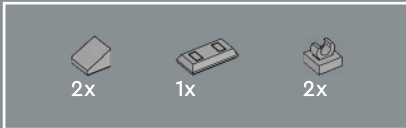
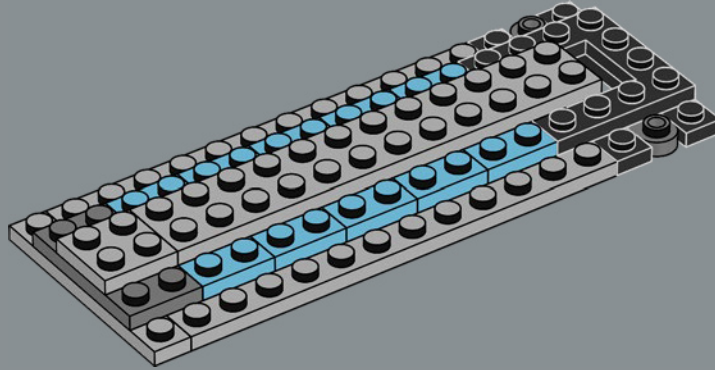


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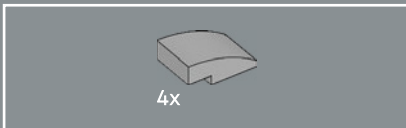
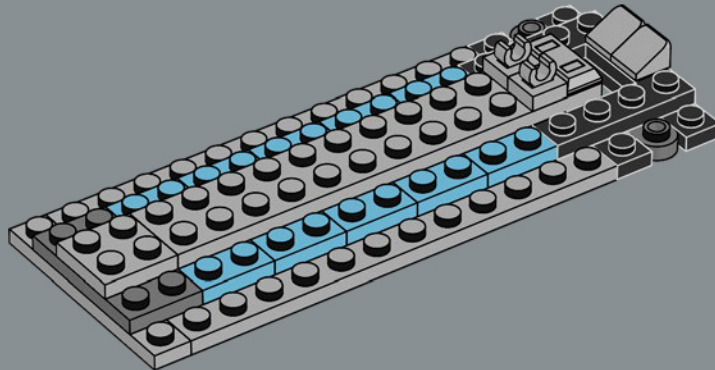




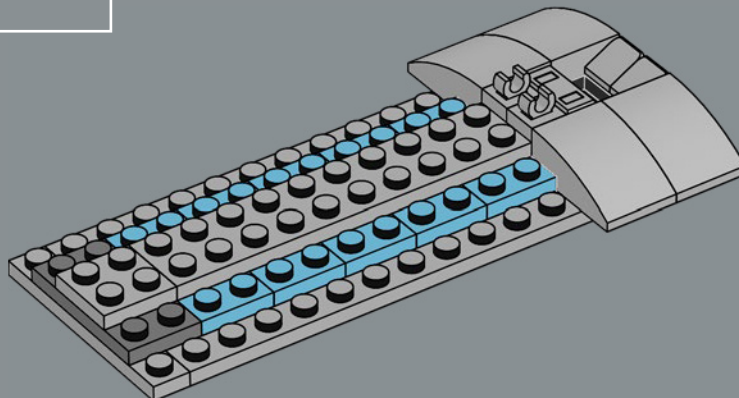
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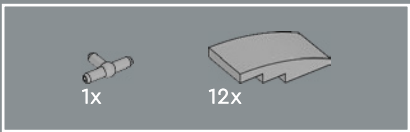


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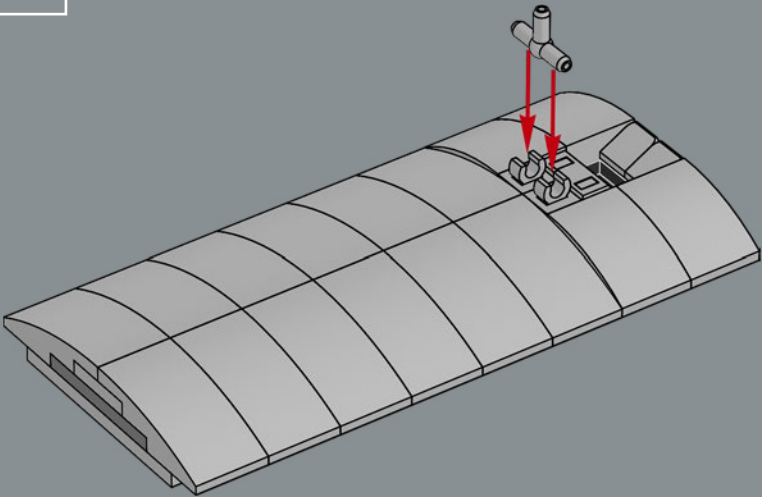


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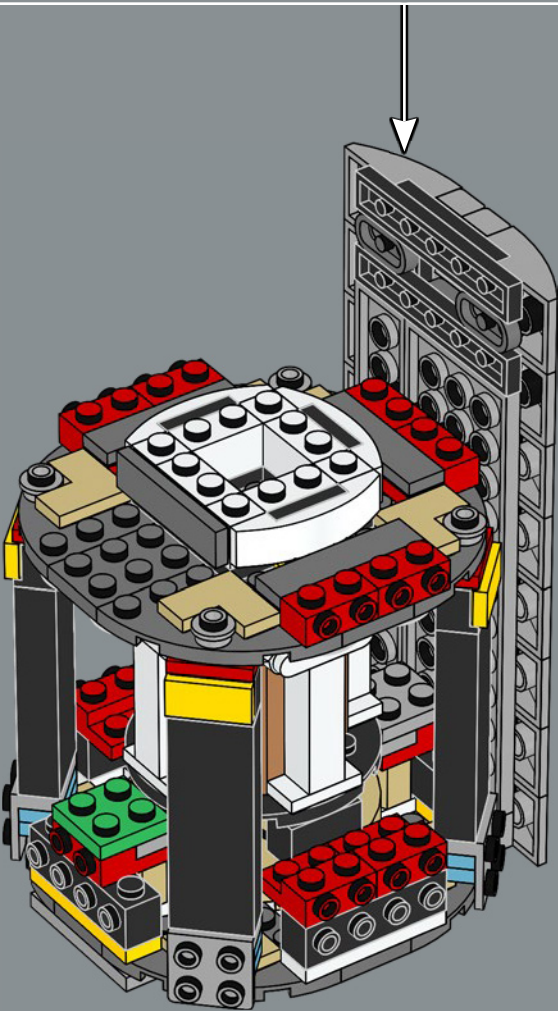


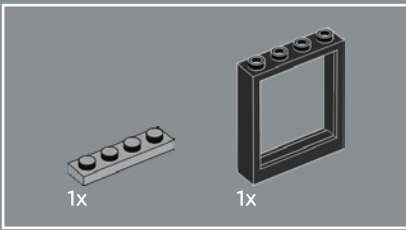


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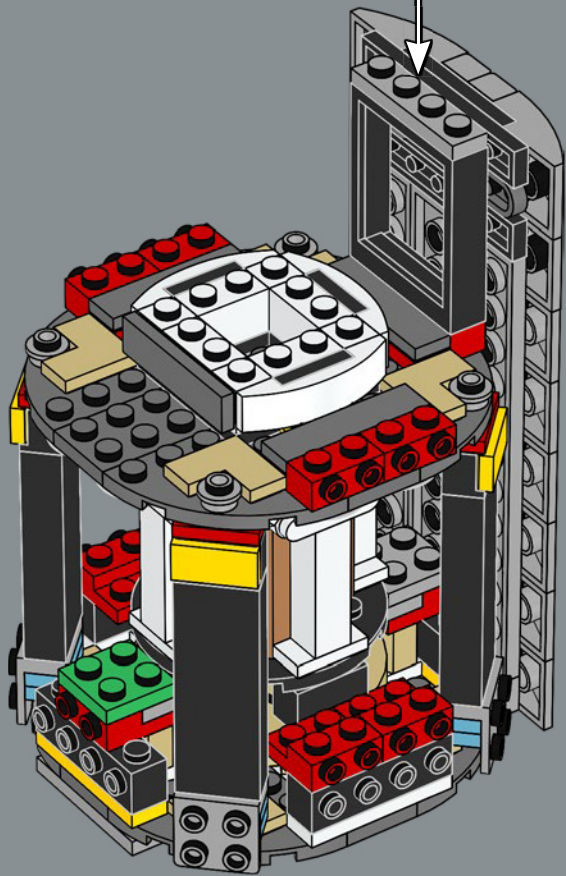
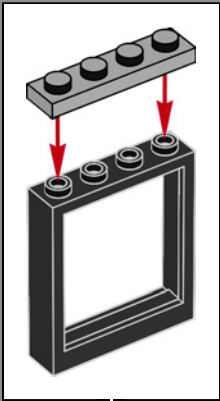


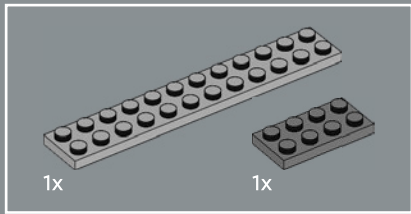
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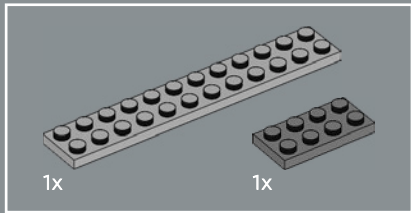
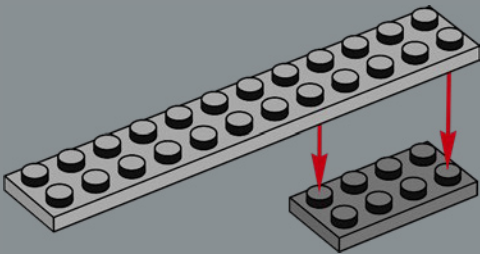


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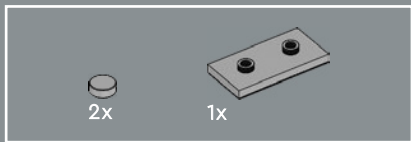
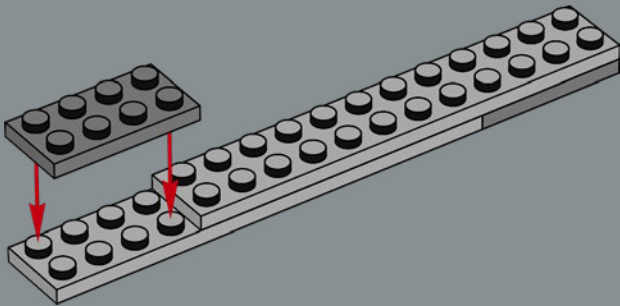




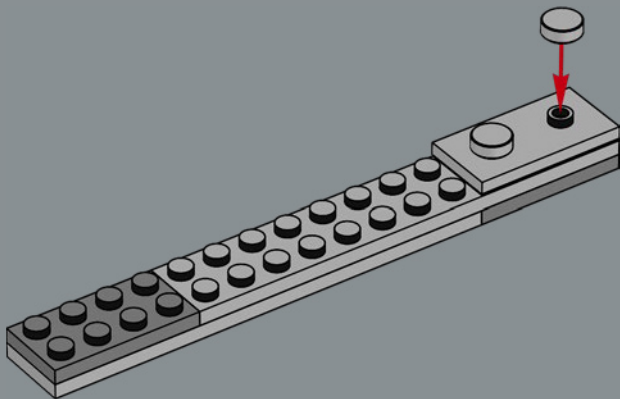
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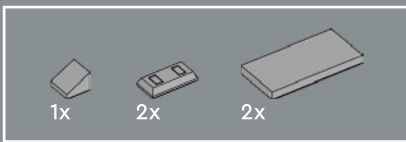


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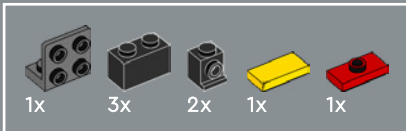
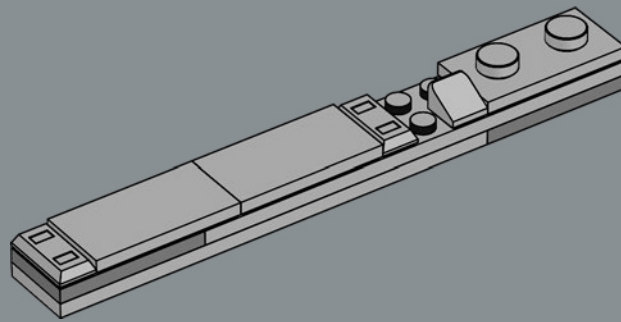


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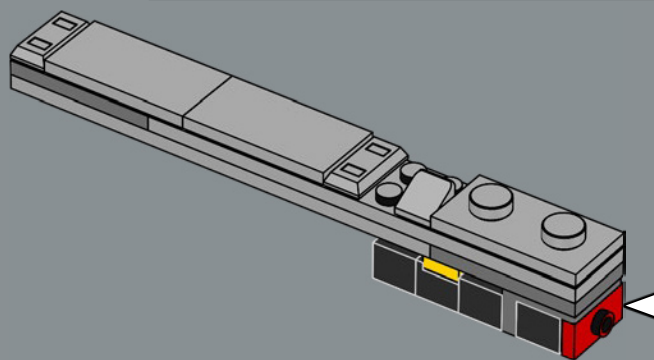
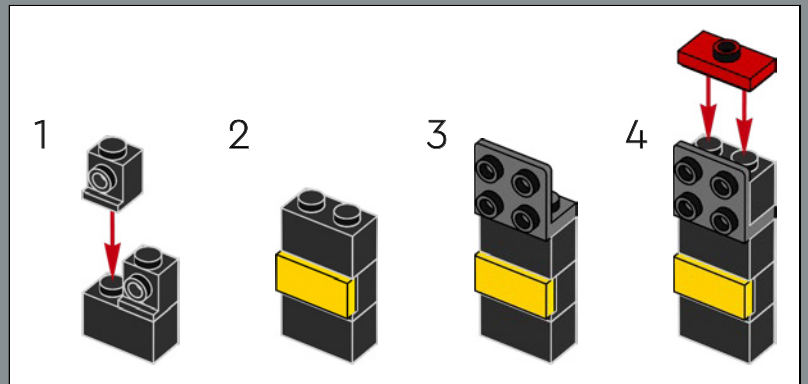


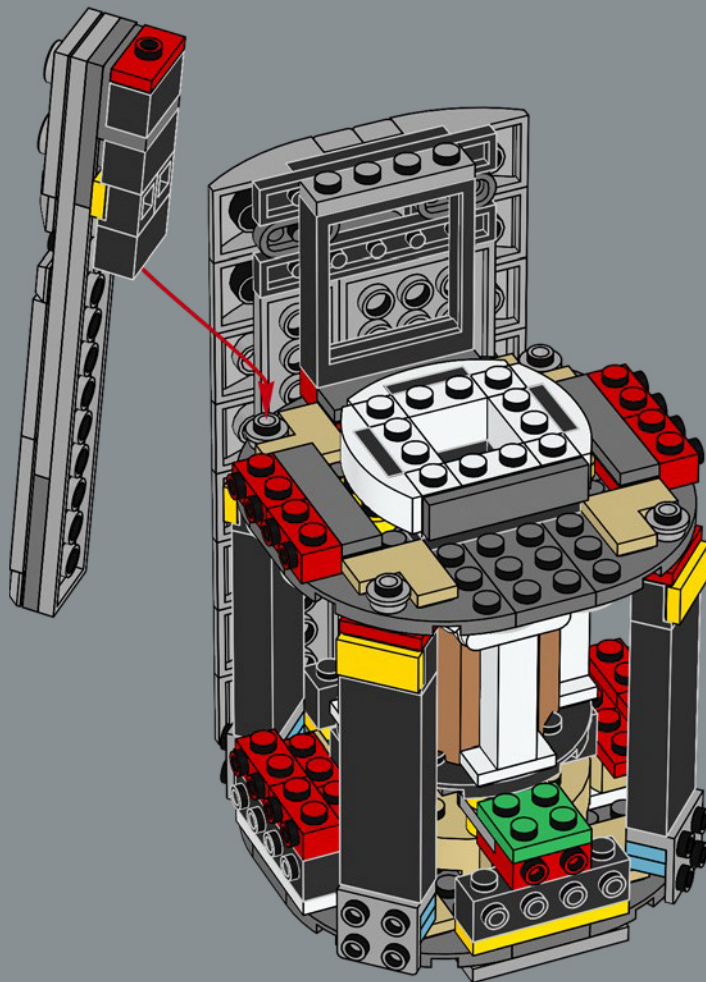


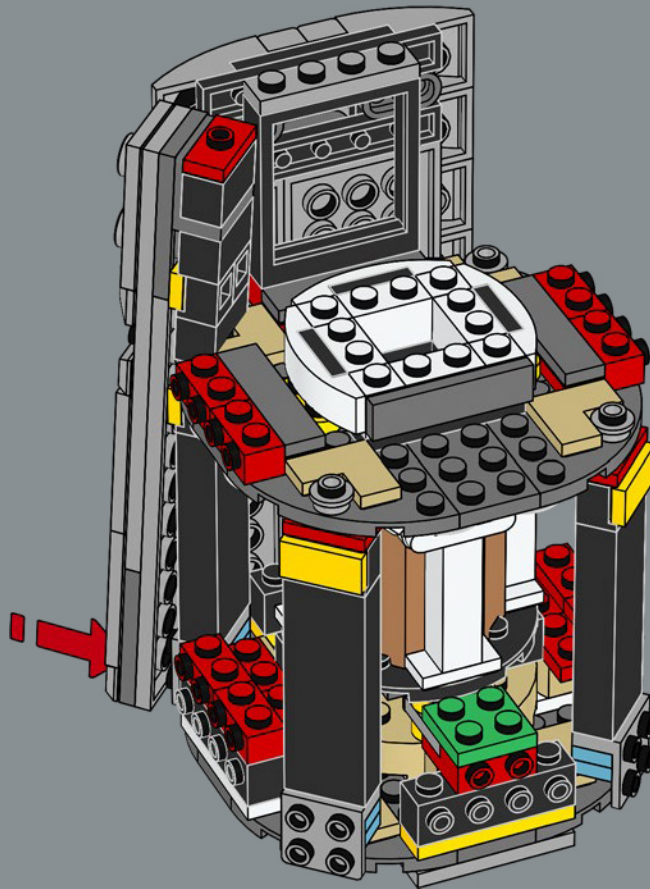
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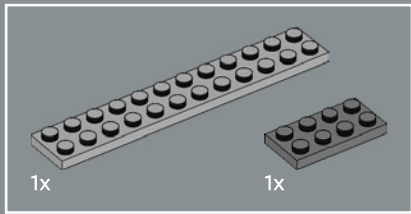


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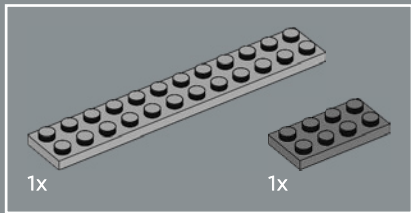
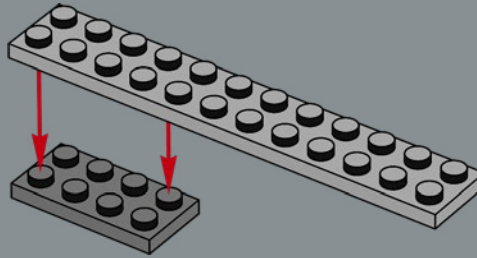




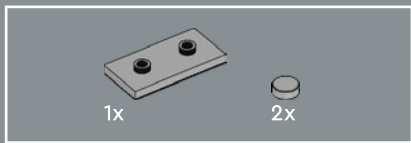
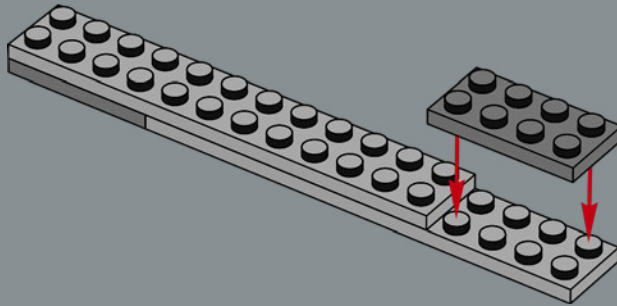




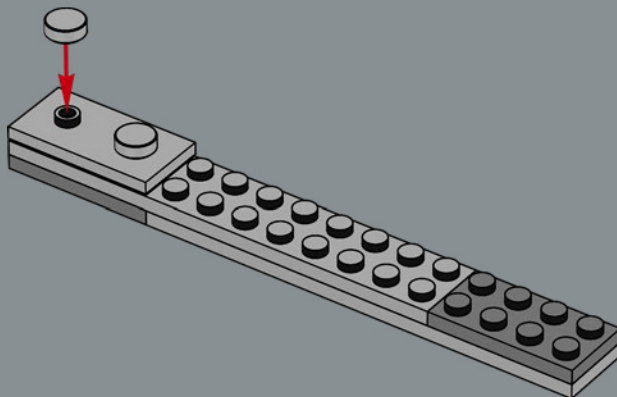
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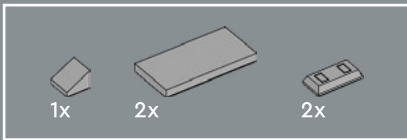


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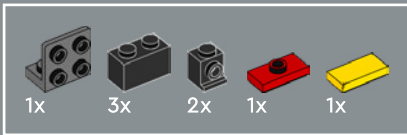
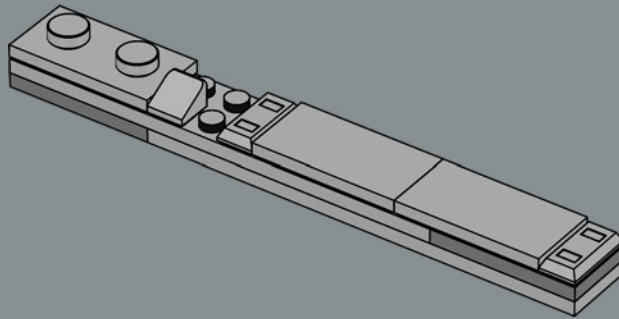


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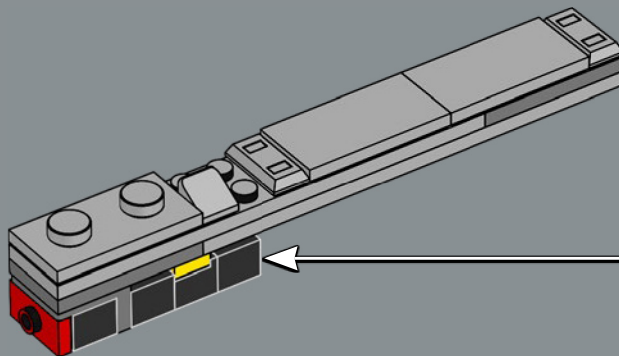
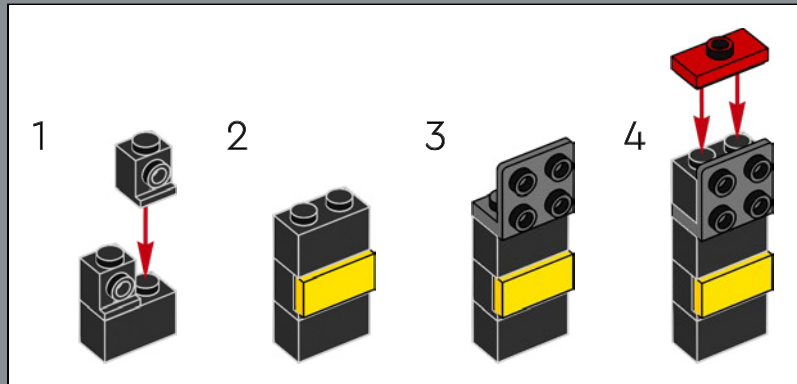


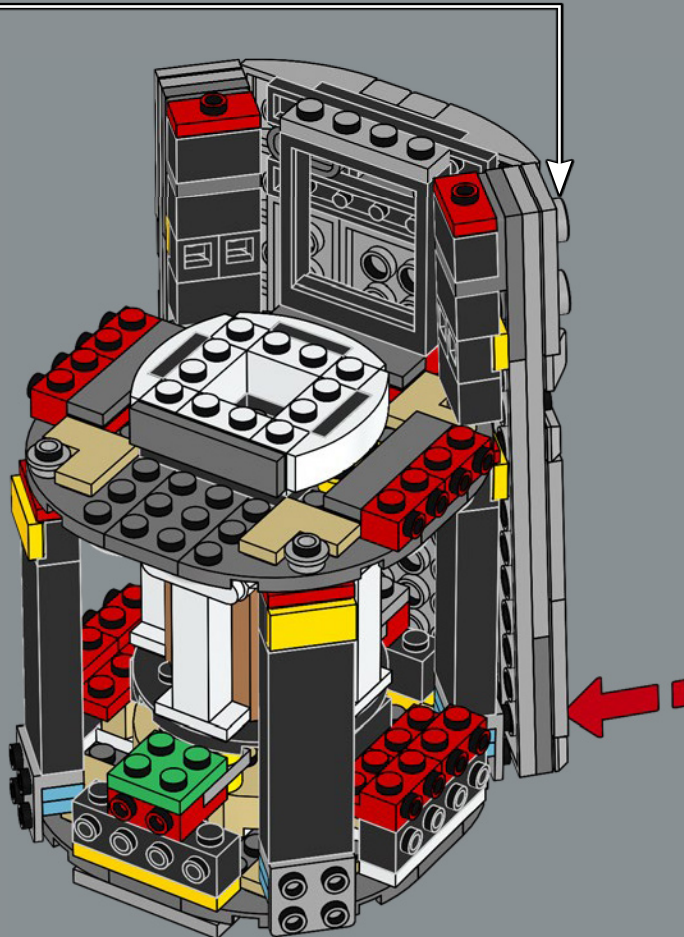


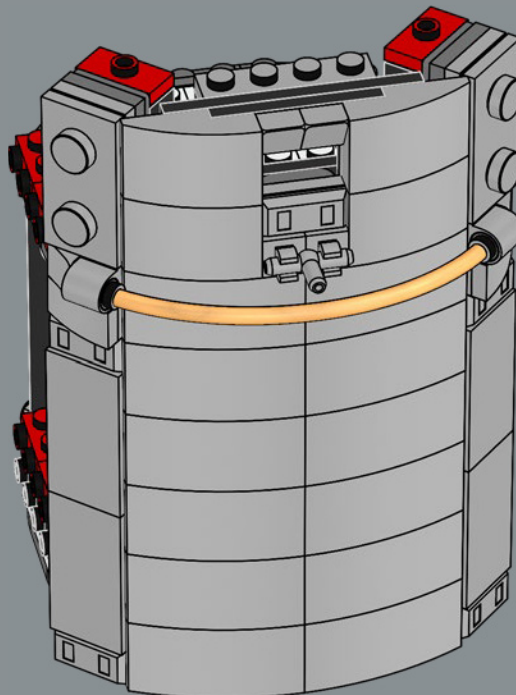
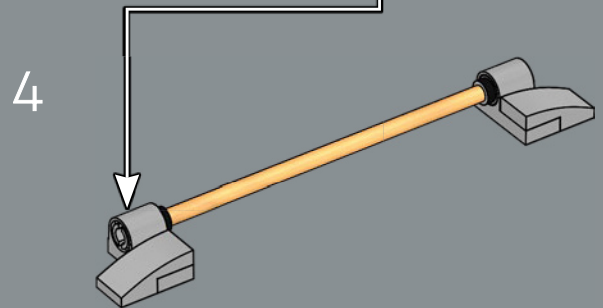
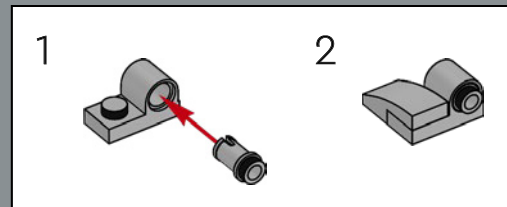
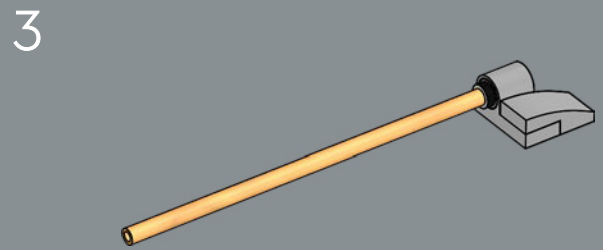
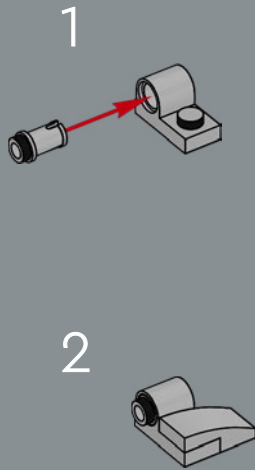
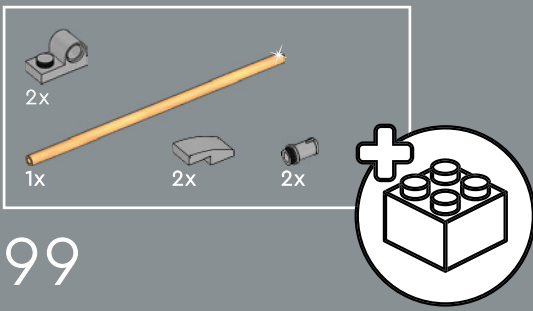
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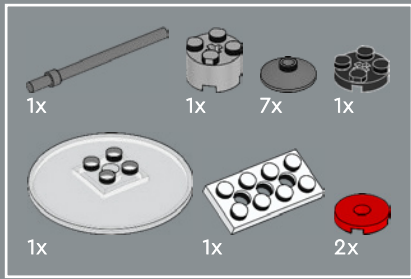


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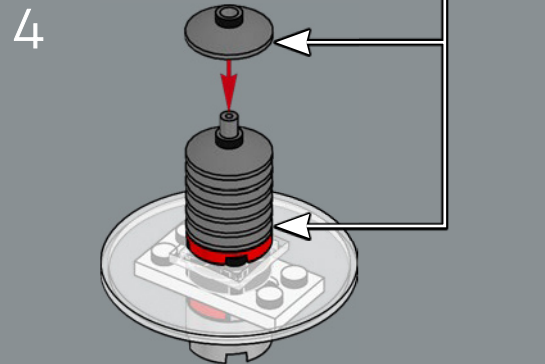
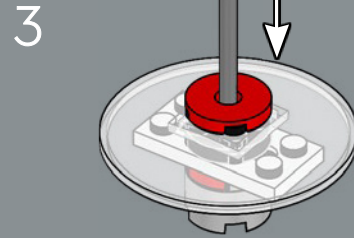
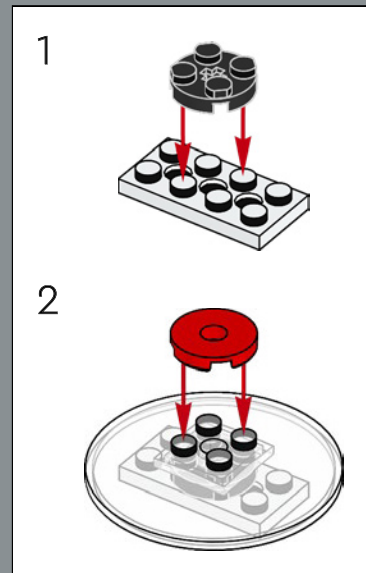
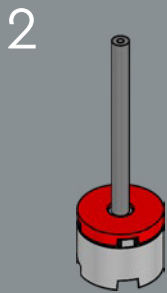
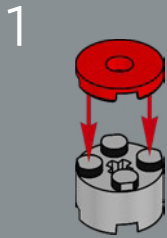


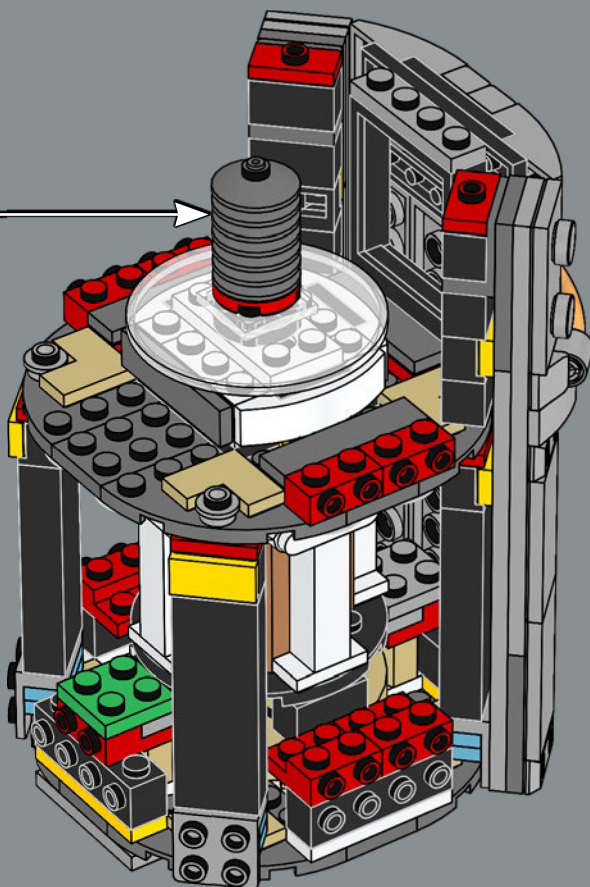


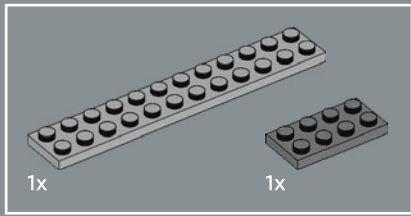




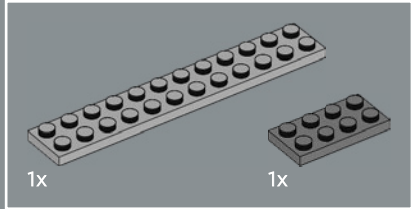
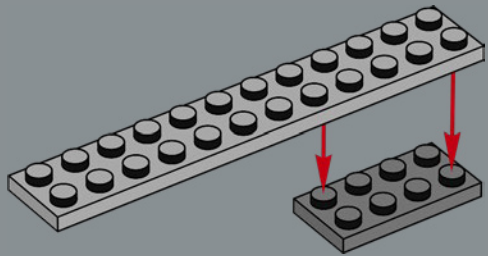
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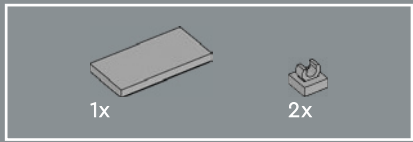
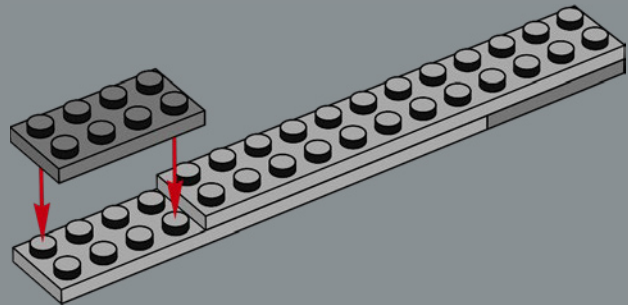




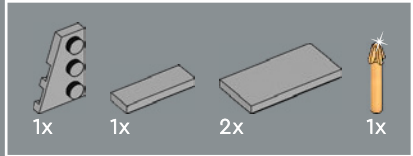
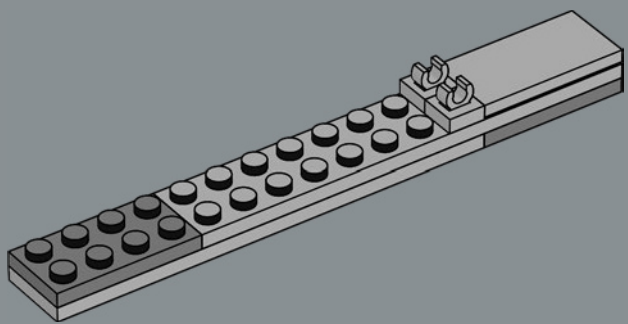
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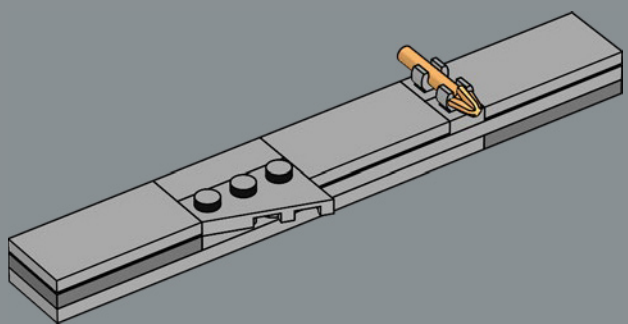
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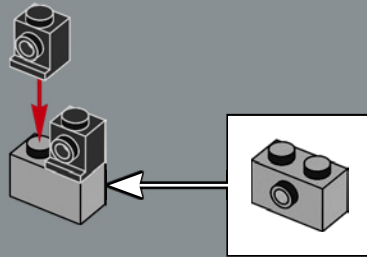
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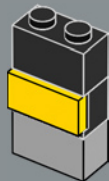
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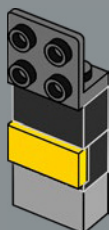
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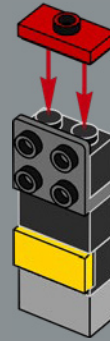
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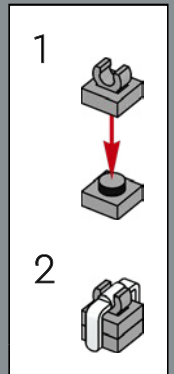
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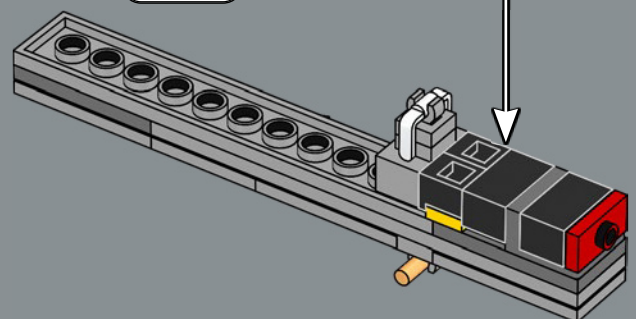
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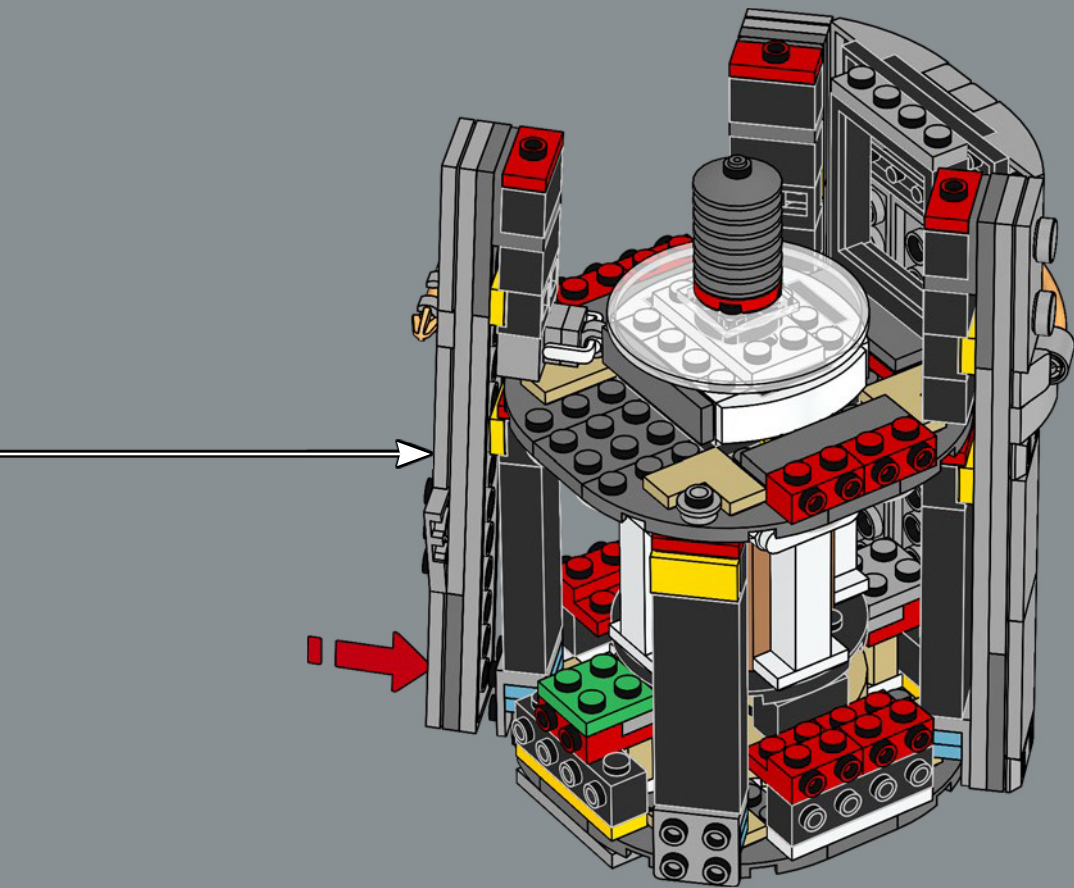


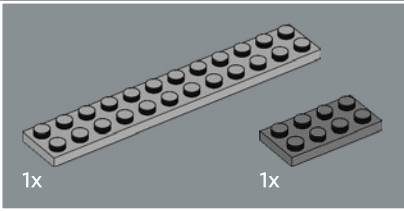
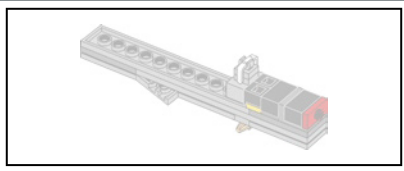
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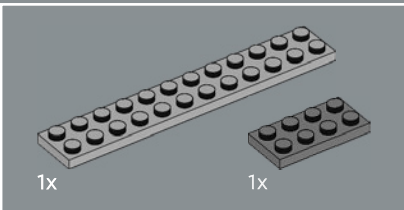
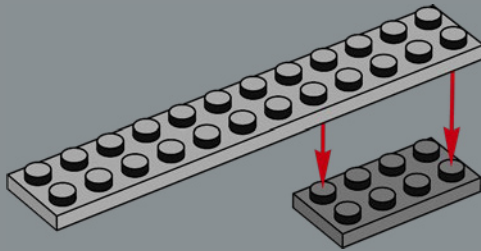
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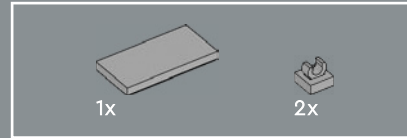
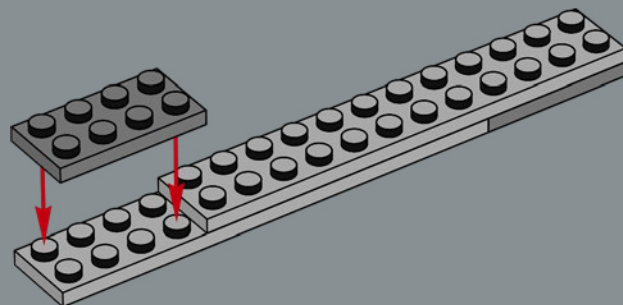




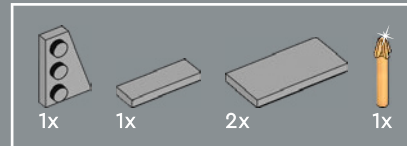
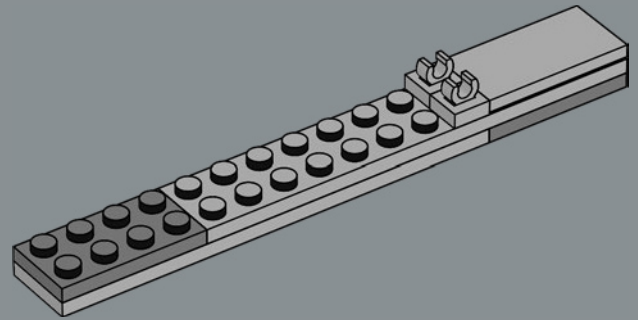
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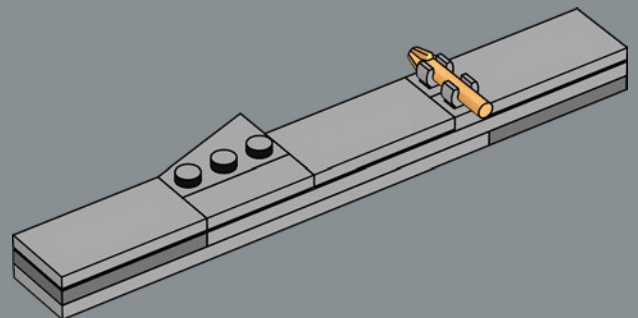
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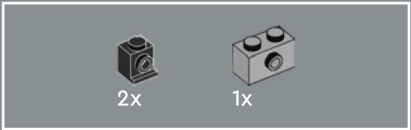


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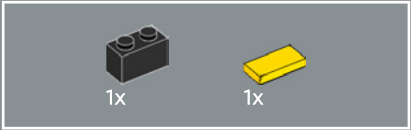
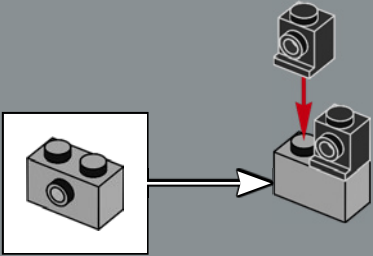


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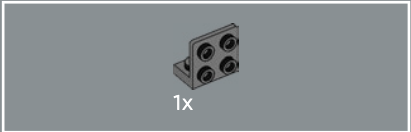
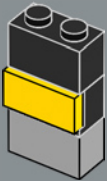




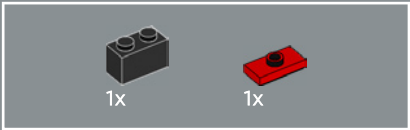
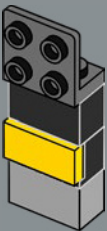
116



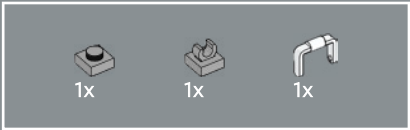
117



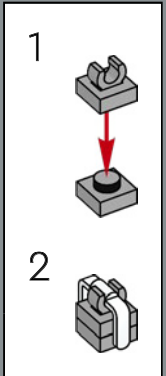
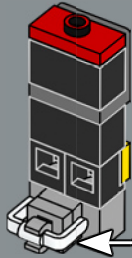
118



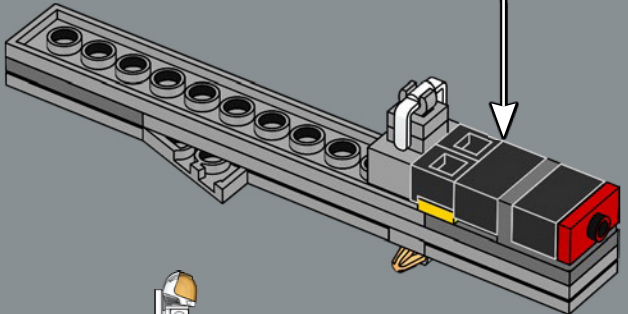
119



120



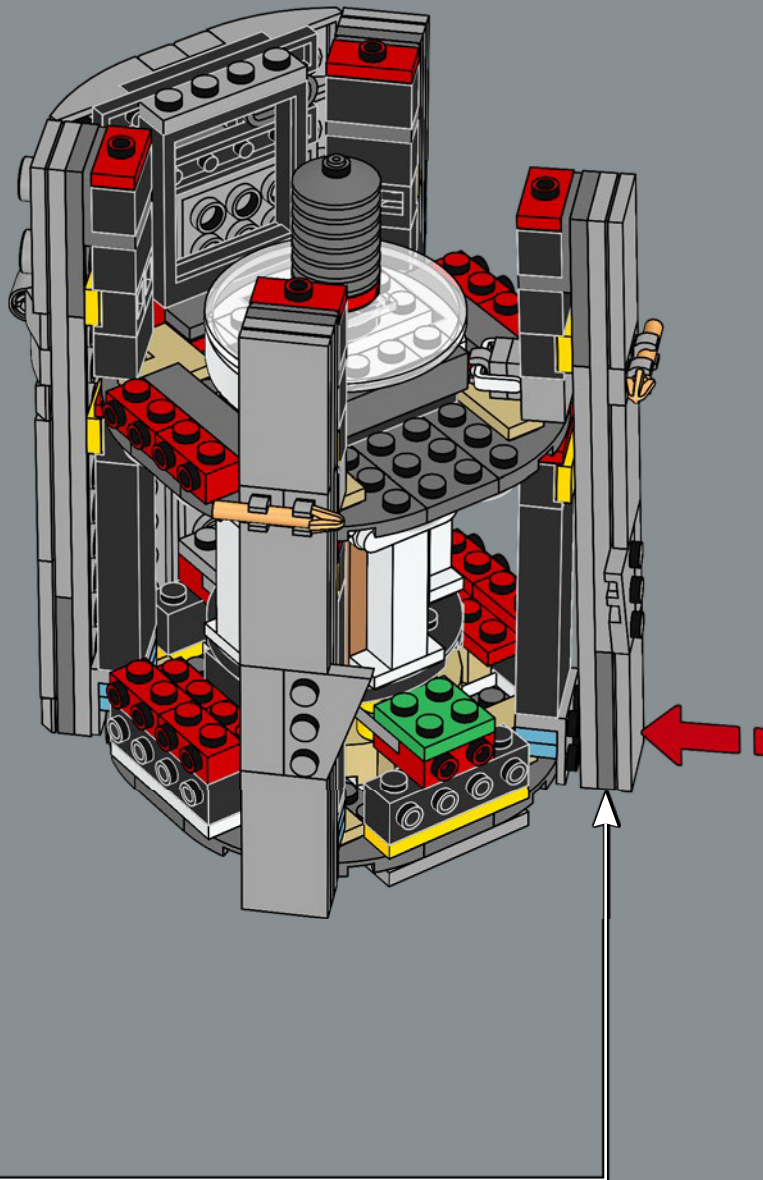
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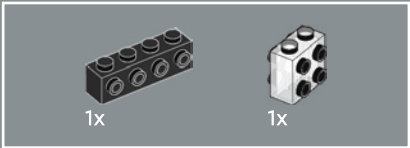
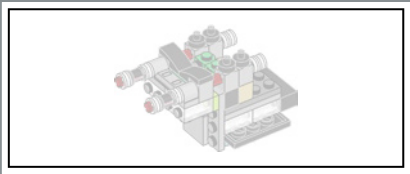


Verschollen im All? Ein GPS, das das gesamte Universum
abdeckt, wird wohl noch eine Weile auf sich warten lassen ...
Bislang wurden lediglich 0,1 % des Himmels beobachtet.

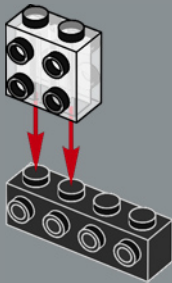


122

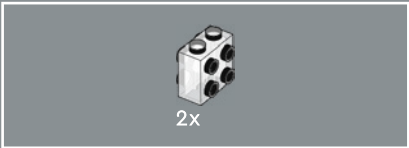
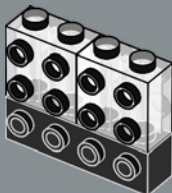




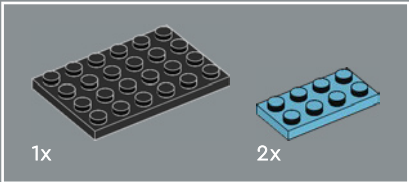
123



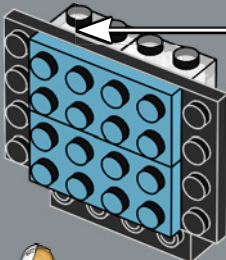
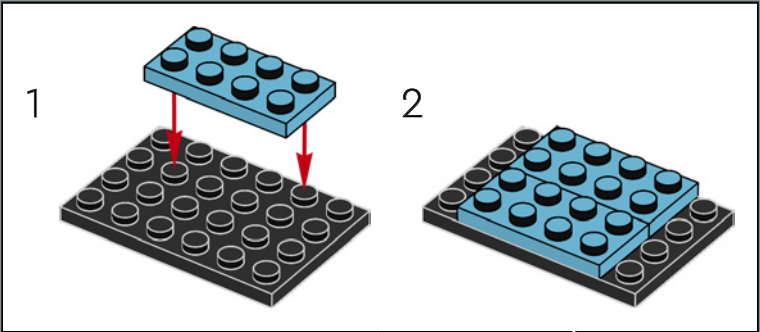
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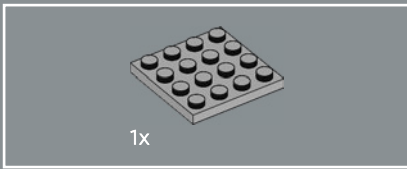


125

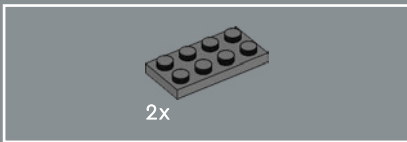
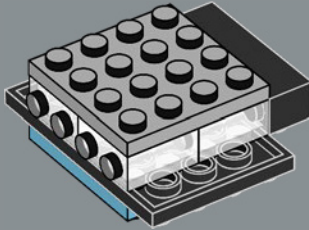


126

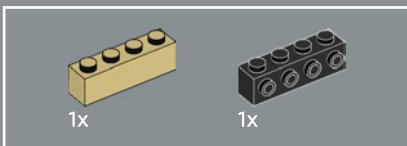
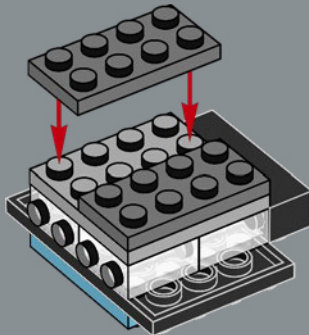




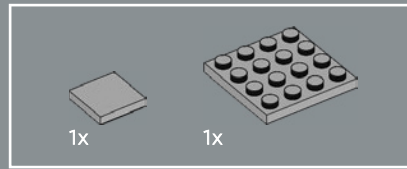
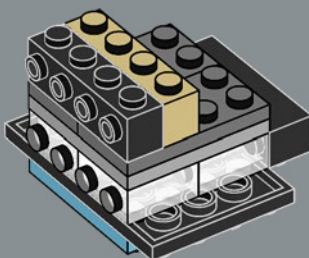
127



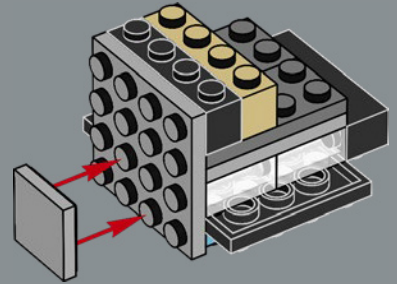
128



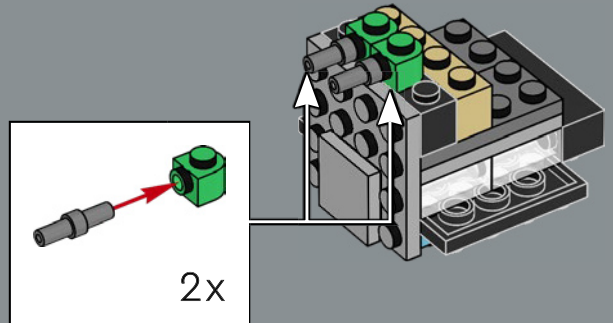
129



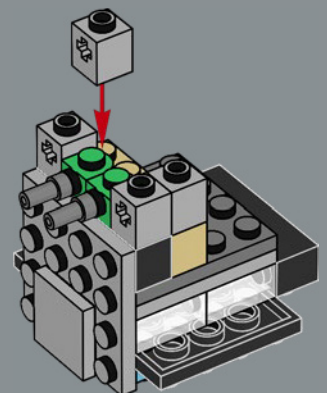
130



131

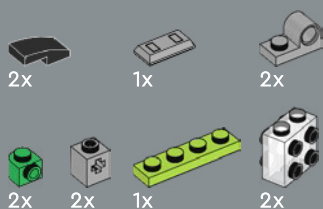
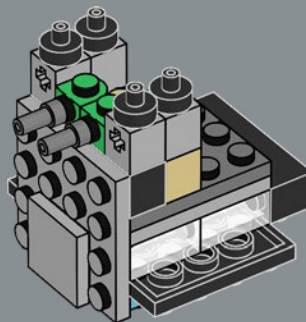


132

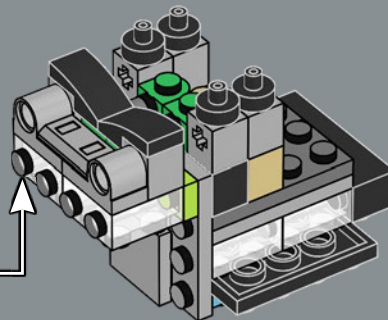
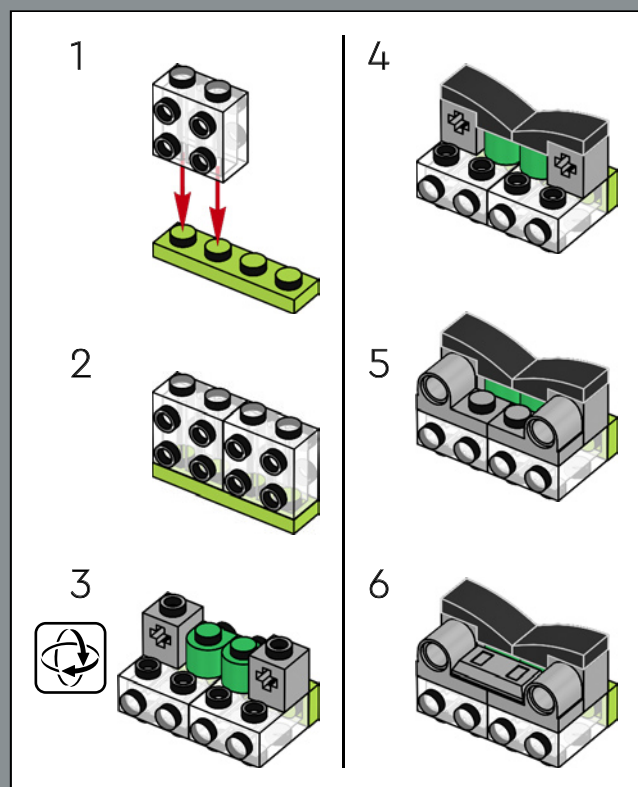


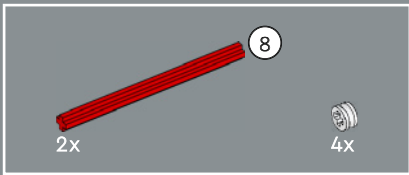
4x

133

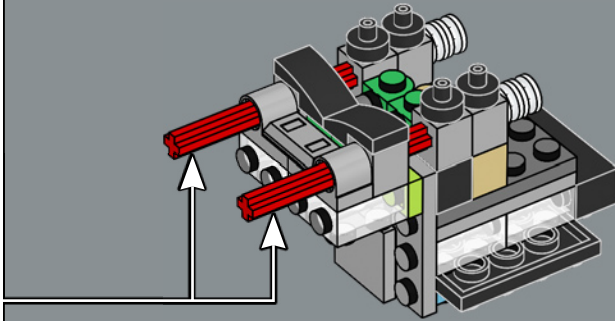
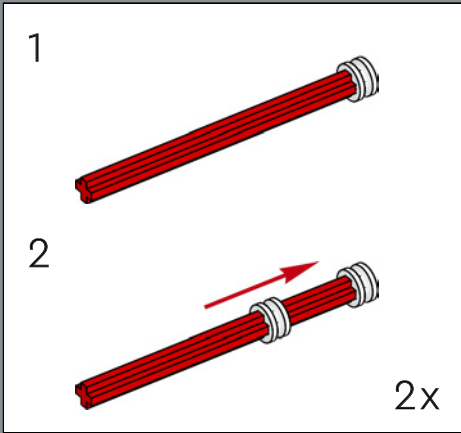


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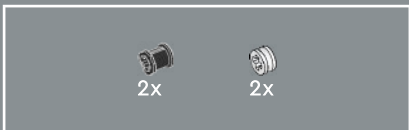
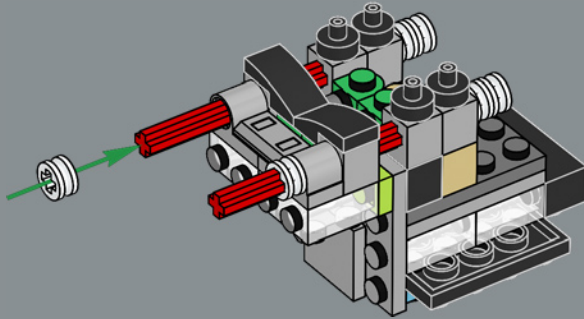




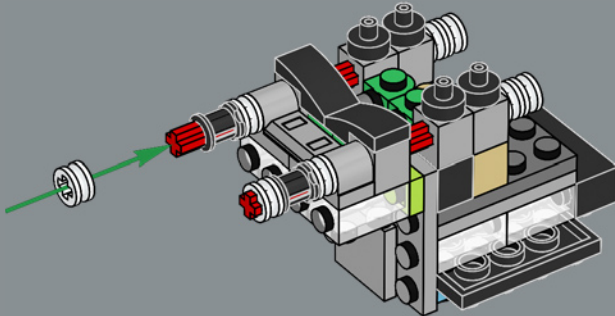
135



136



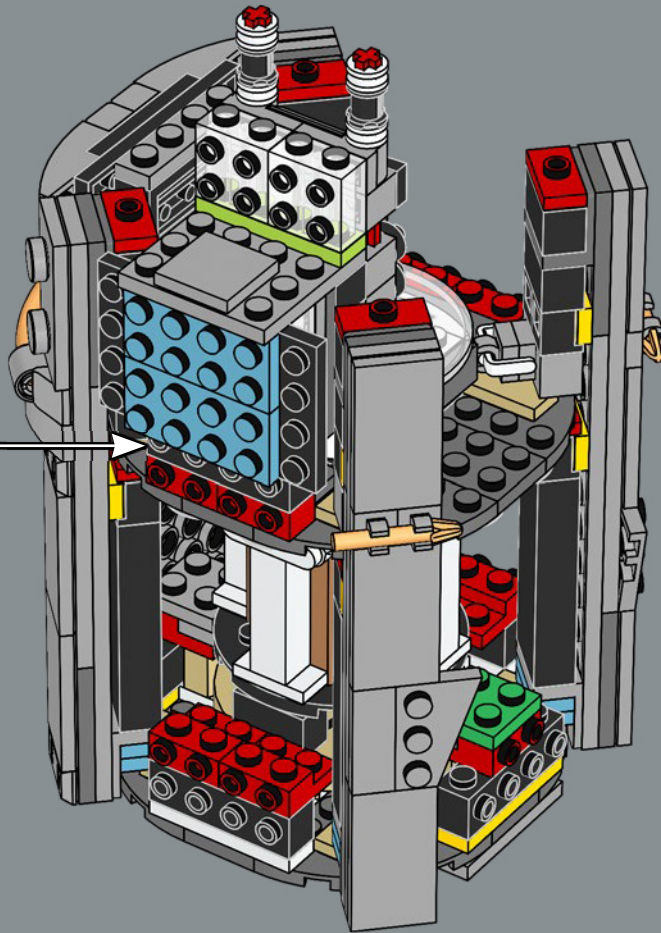
137

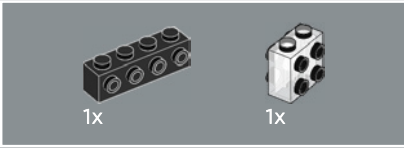
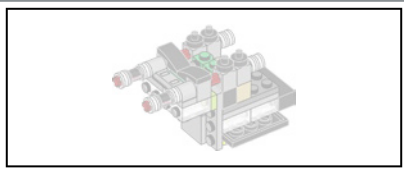


Das Hubble-Teleskop umkreist die Erde in einer Höhe von etwa 483 km und erreicht dabei eine Durchschnittsgeschwindigkeit von 27.000 km/h.

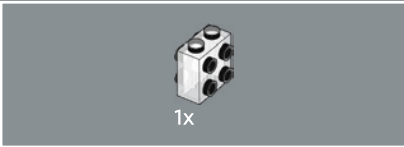
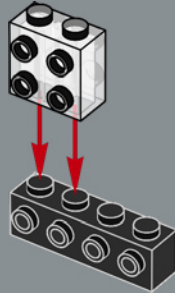


138

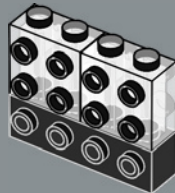




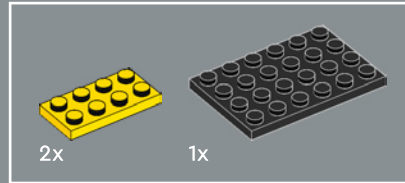
139



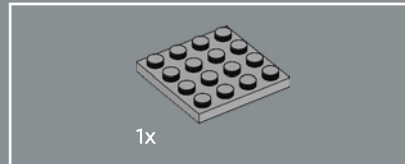
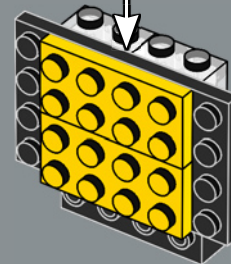
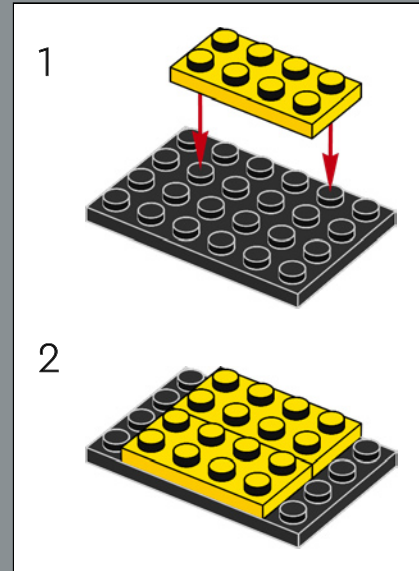
140



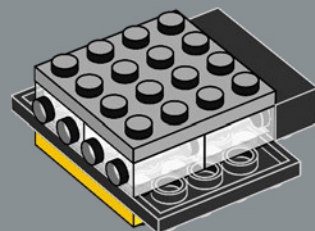
141

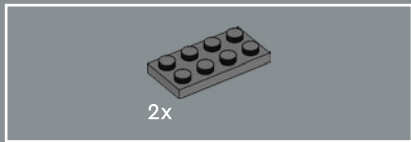


142

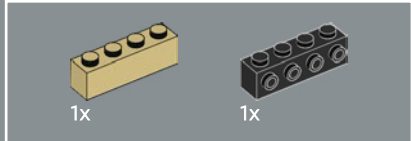
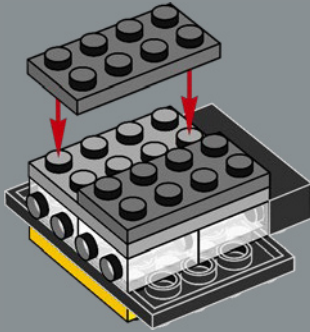


143

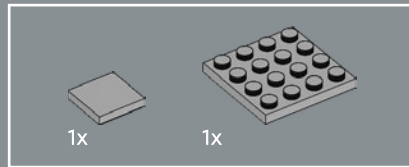
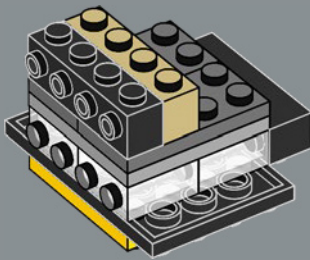




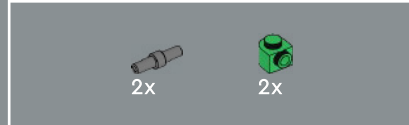
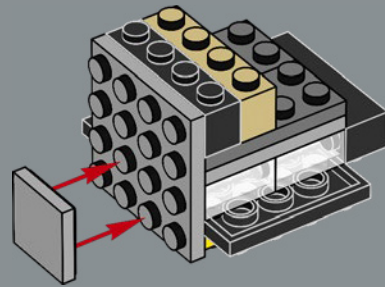
144



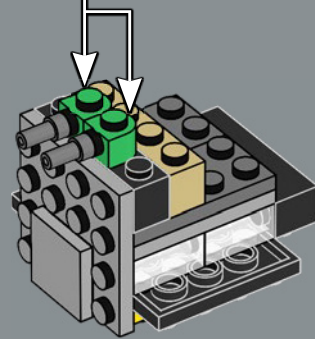
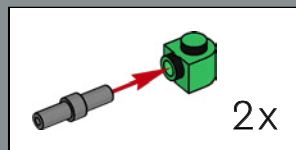
145



146



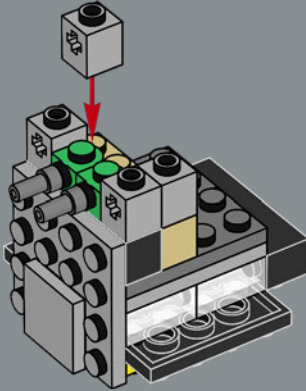
147





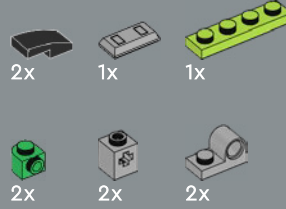
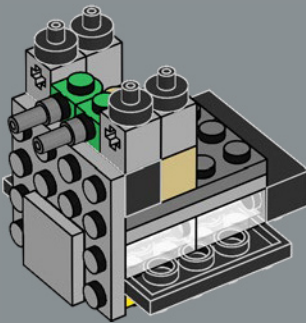
4x

148



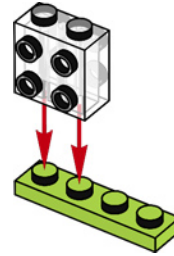
4x

149

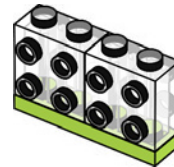


150

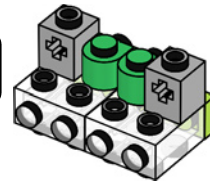
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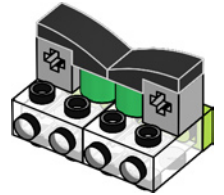
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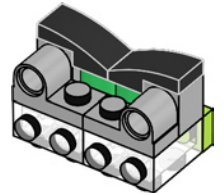
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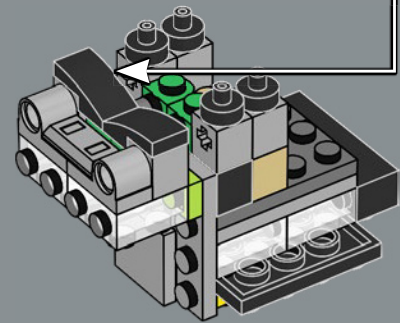
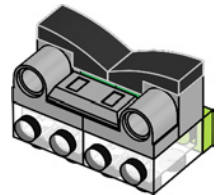
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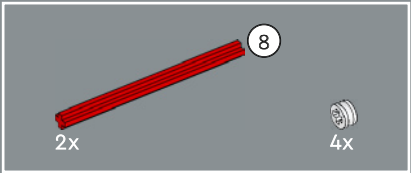


5

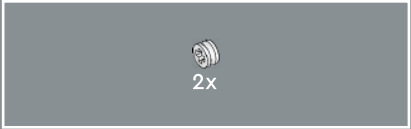
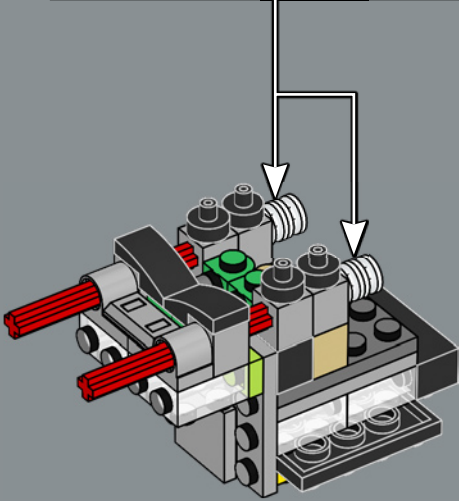
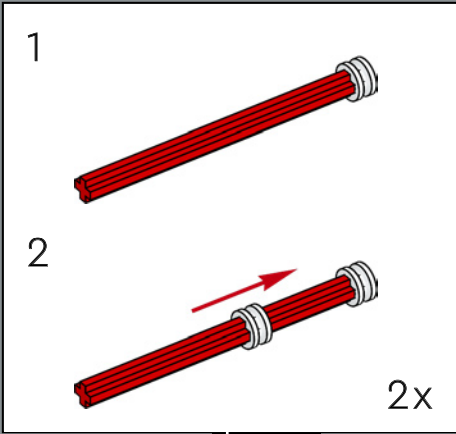


6

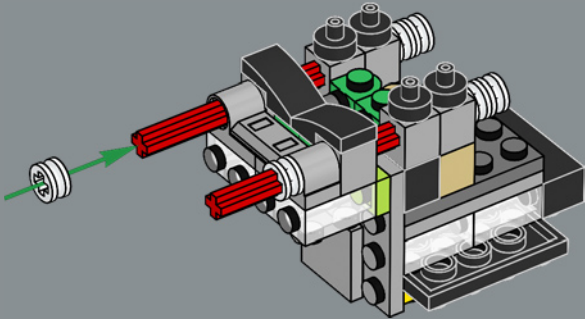




151



152



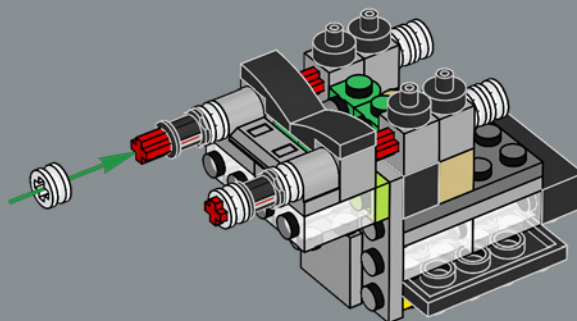


2x

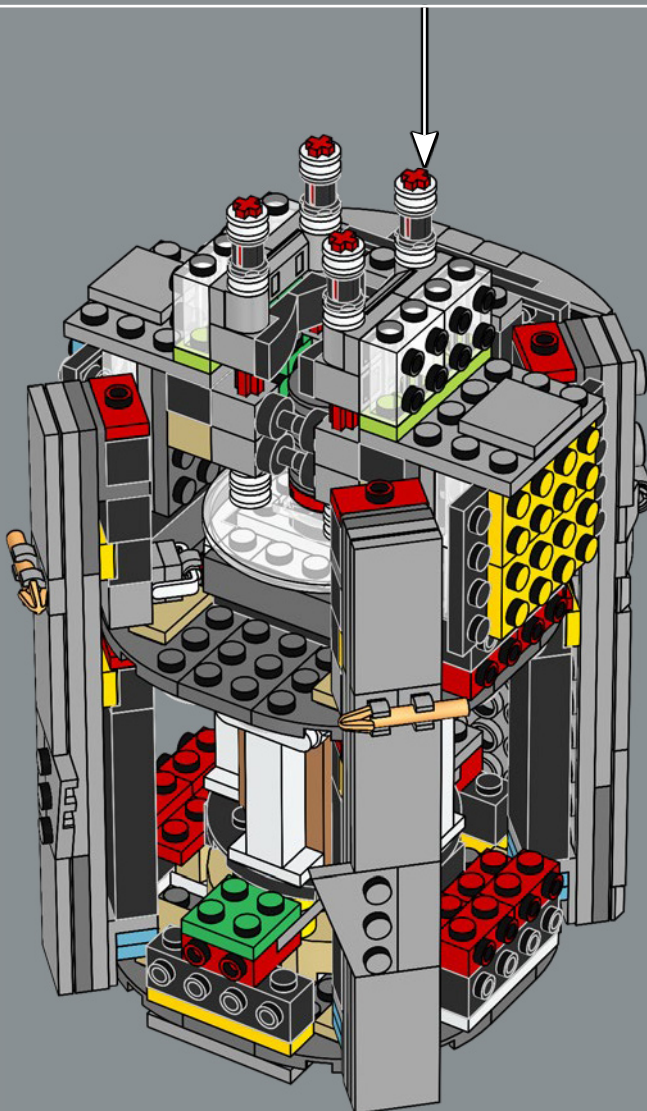


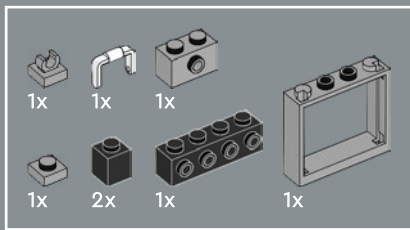
2x

153

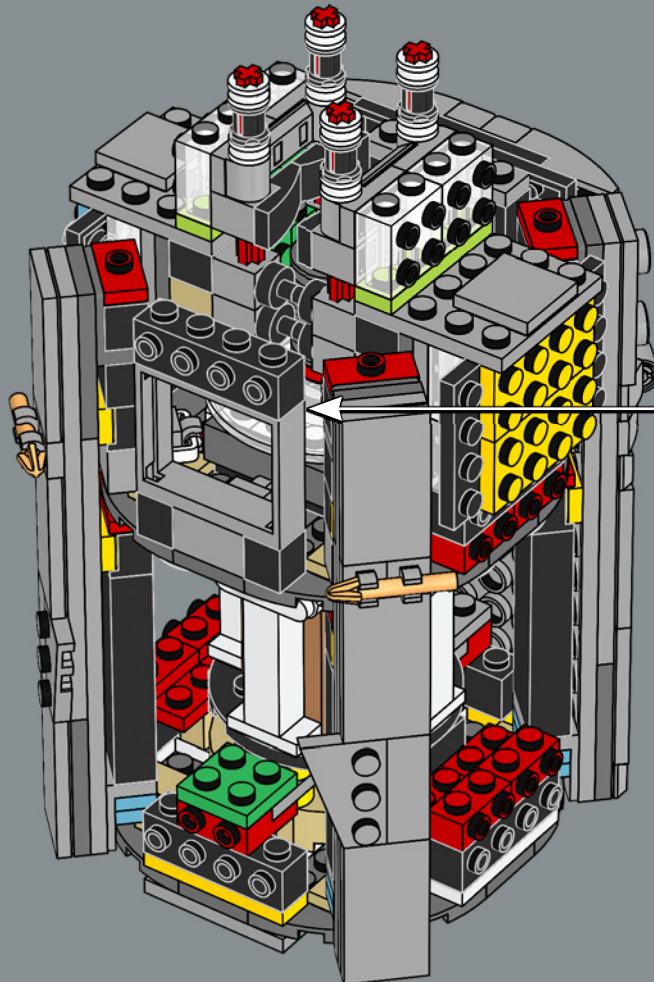
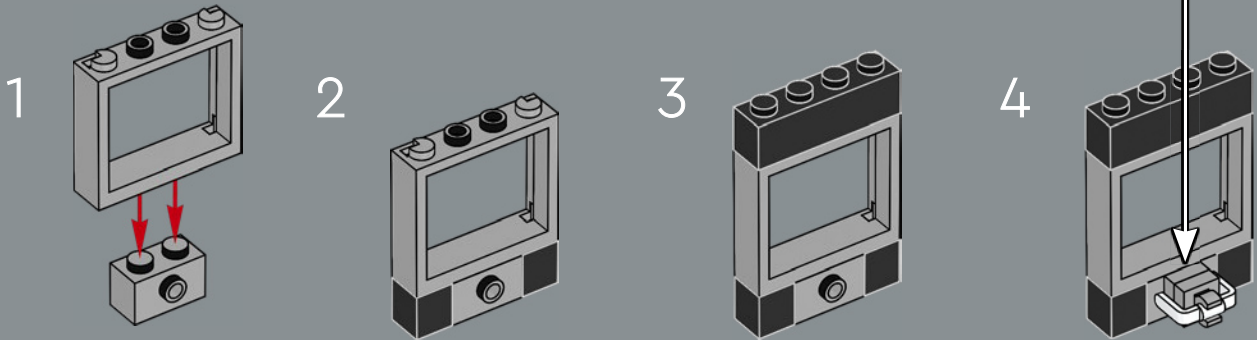
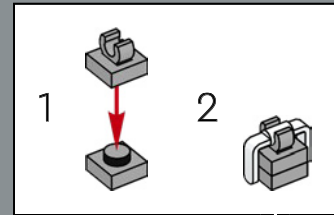


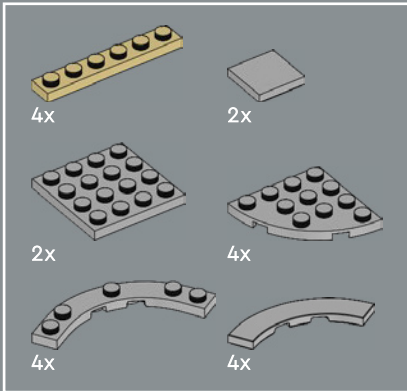
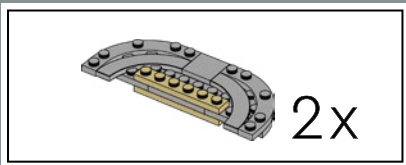
154





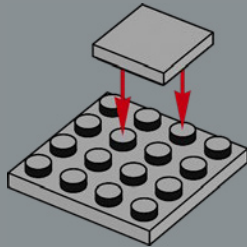
155



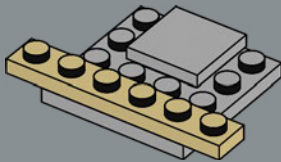


156

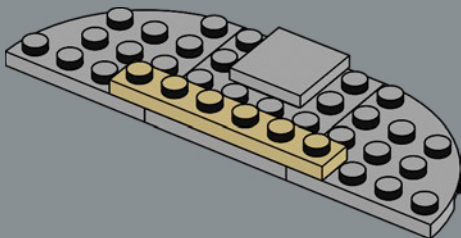
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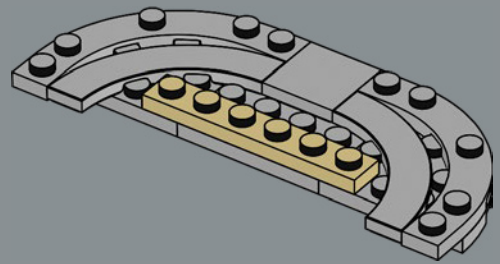
2



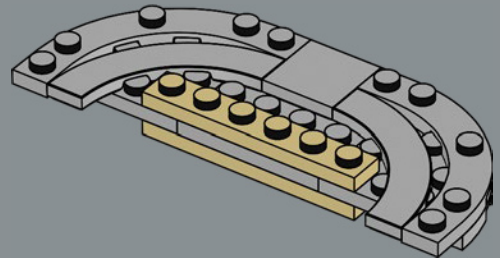
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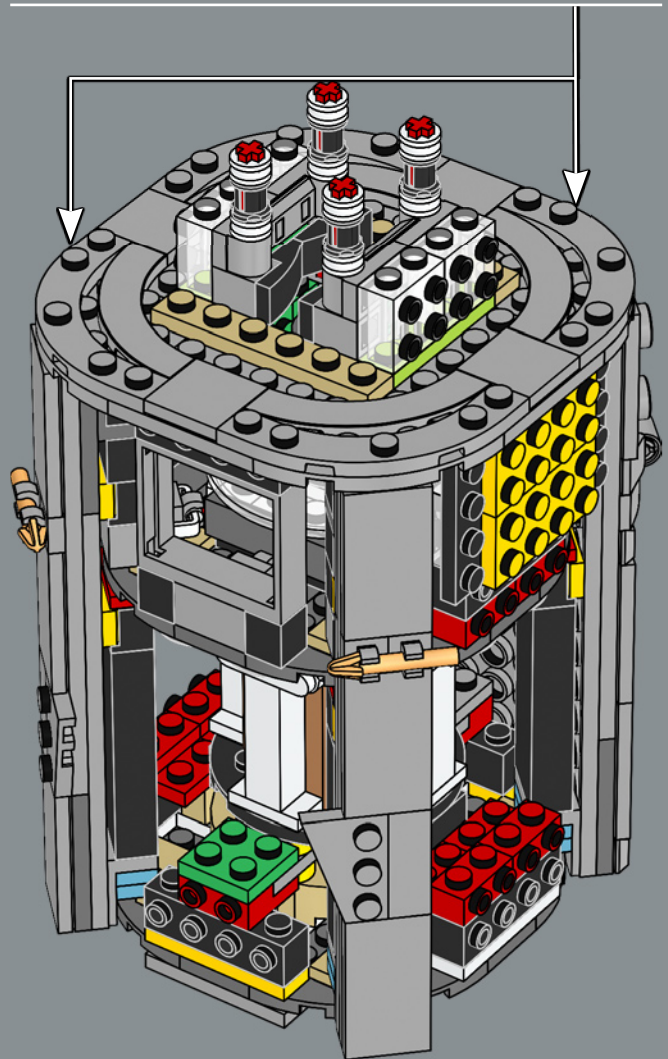
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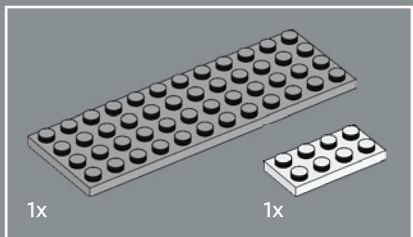
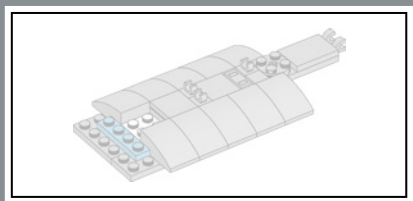


5

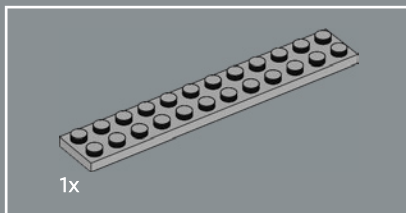
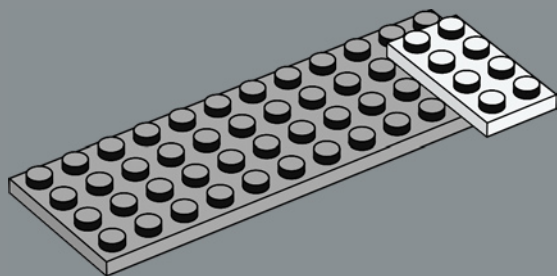


2x

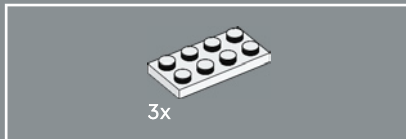
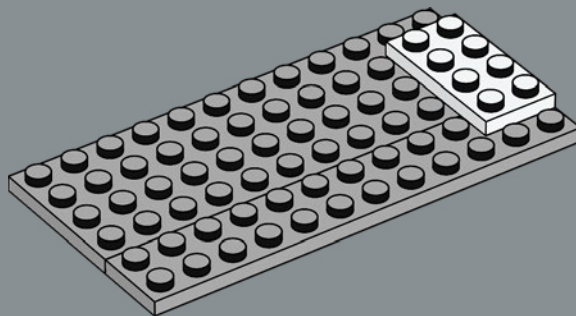




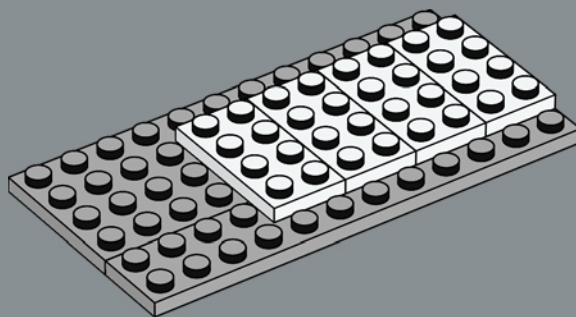
157

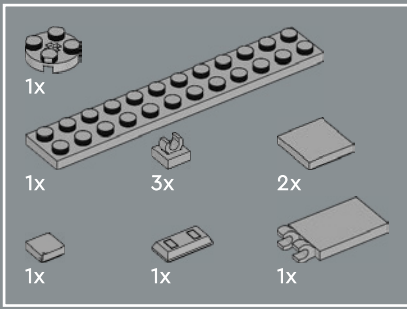


158

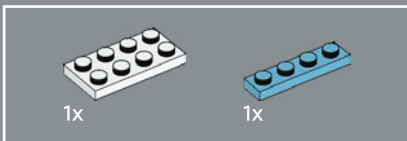
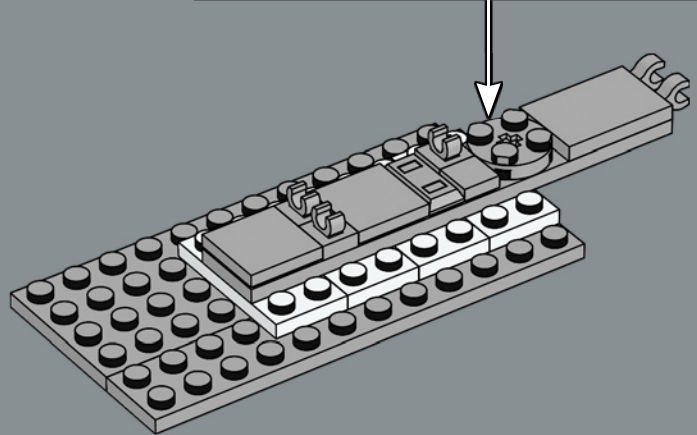
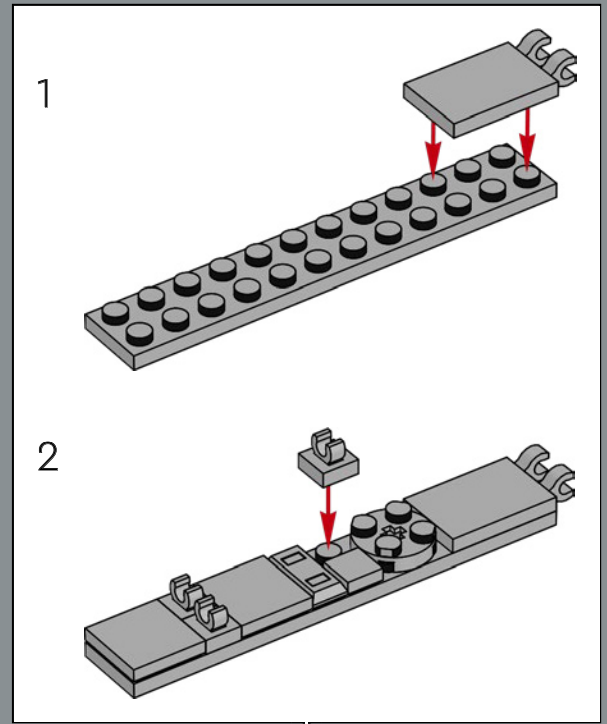


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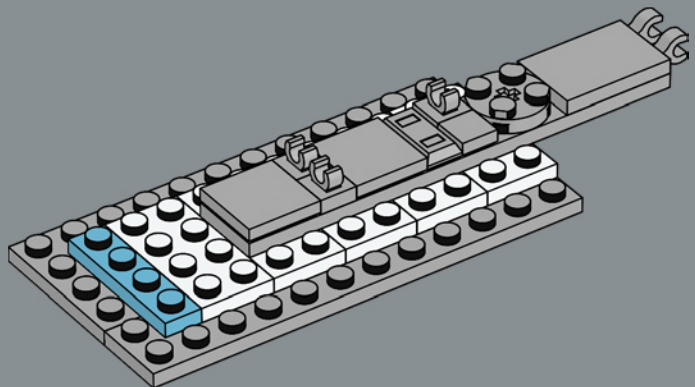


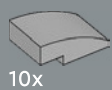


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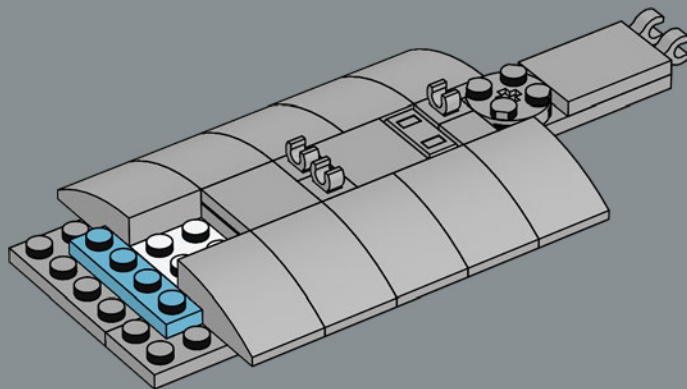
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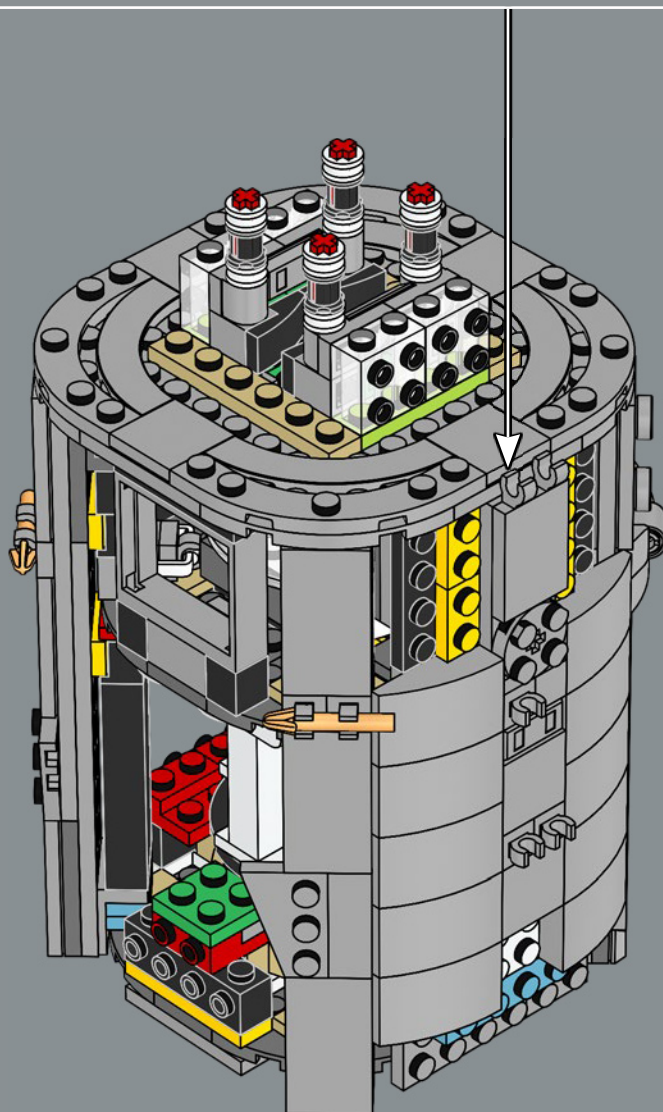


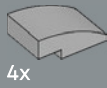
10x

162



163

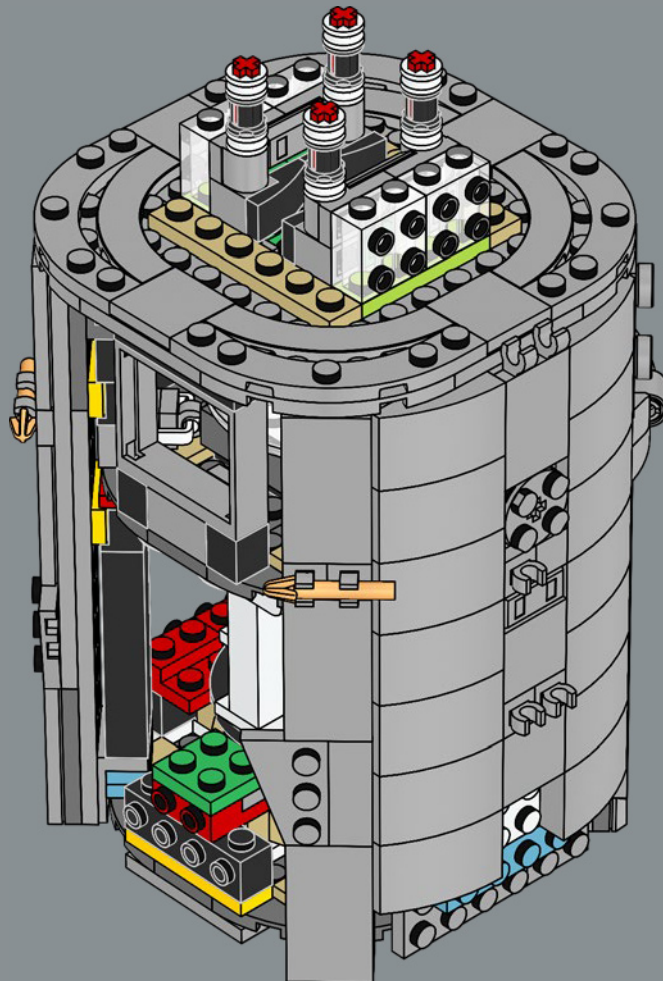


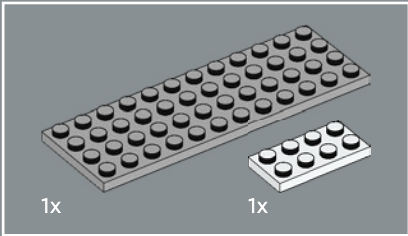
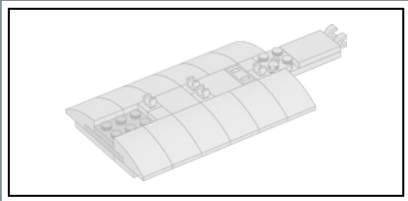


Mit mehr als 184.000 Umrundungen der Erde hat das Hubble-Teleskop bis heute eine Strecke von über 8 Milliarden Kilometern zurückgelegt.

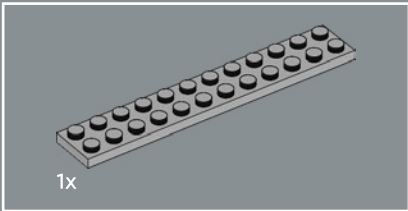
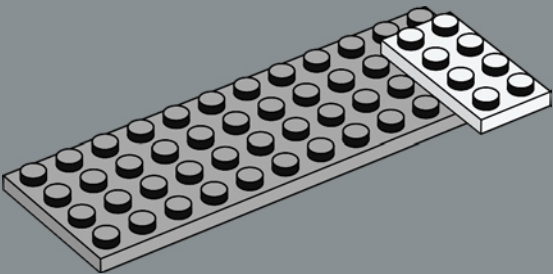


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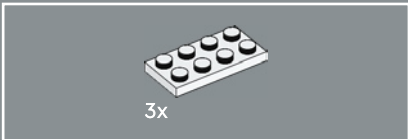
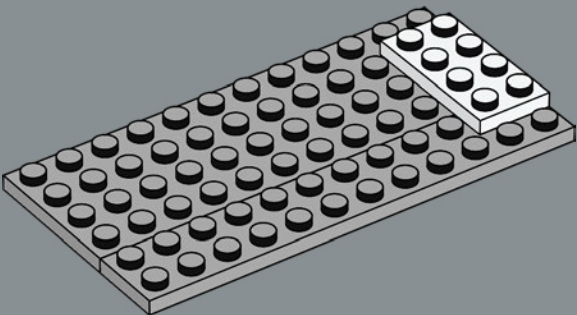




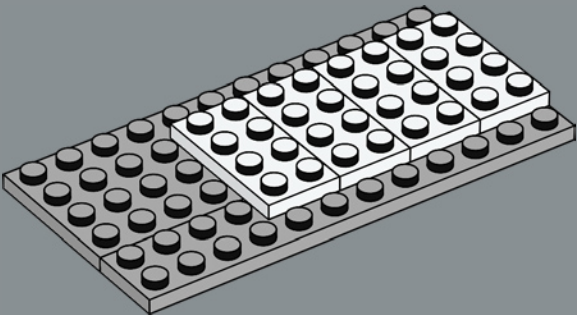
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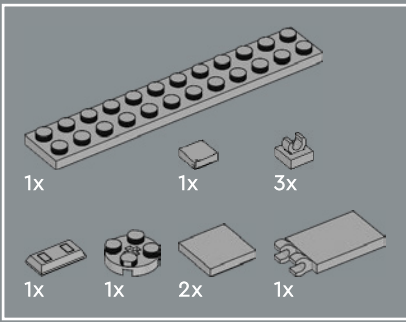


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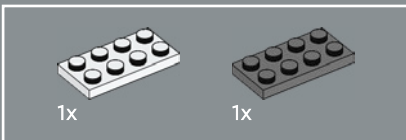
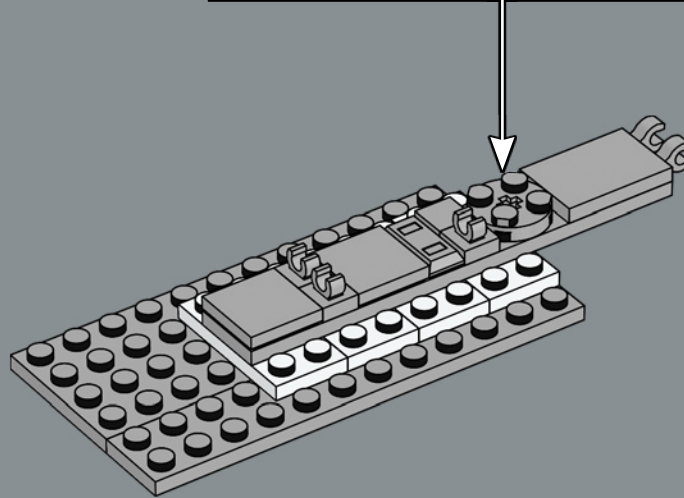
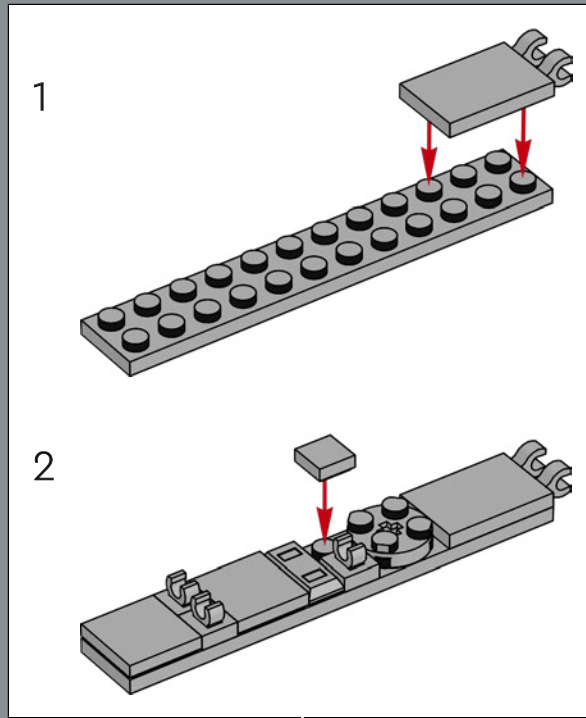


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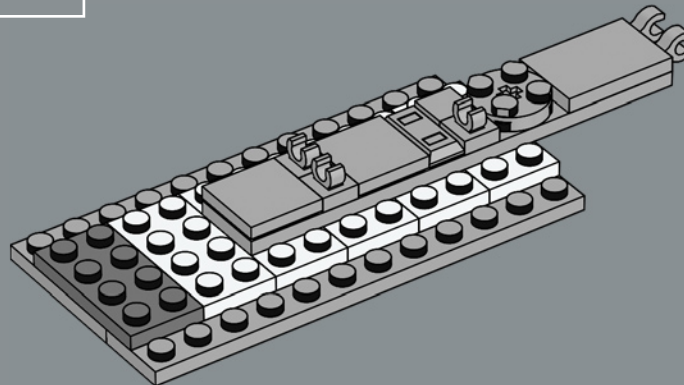




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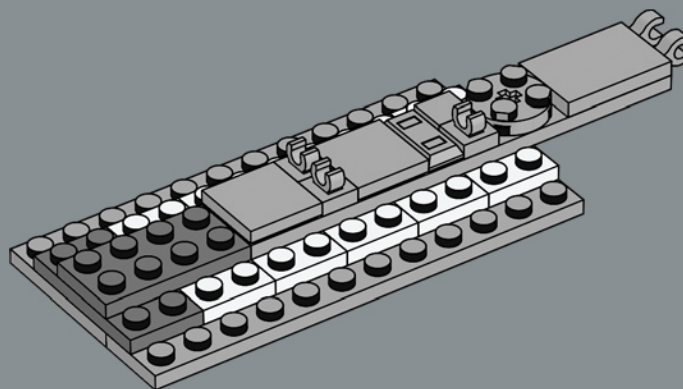
169





1x

170

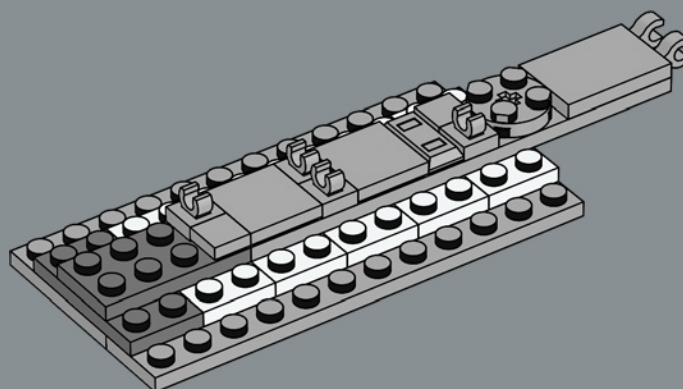


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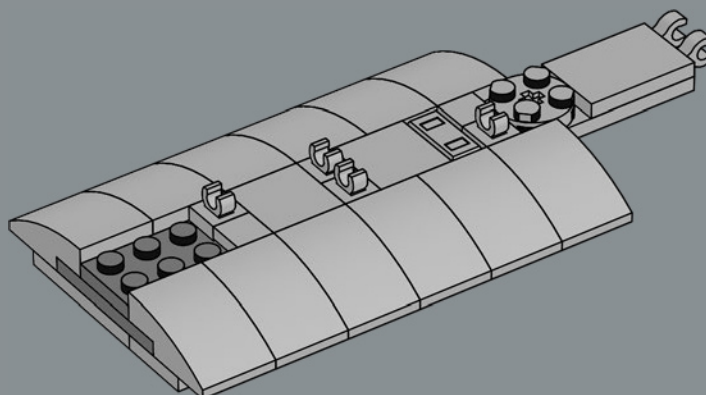
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171

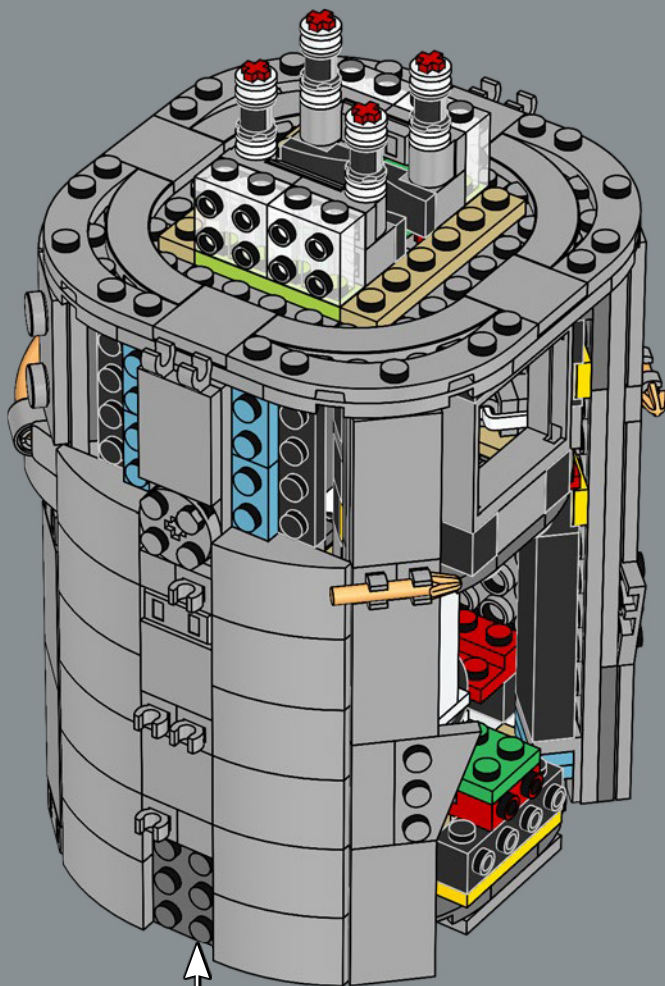


12x

172



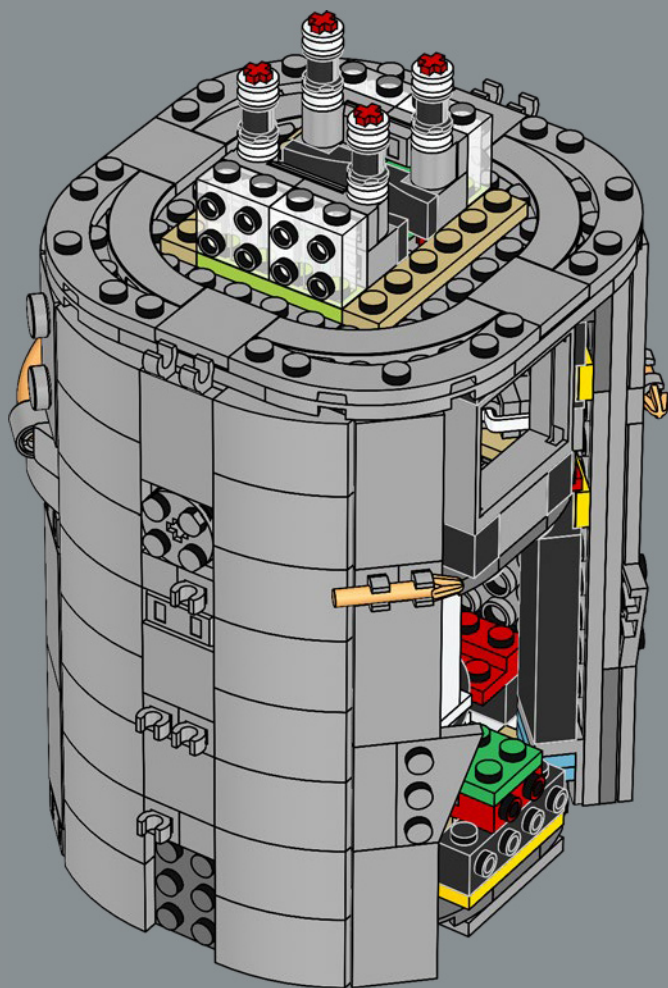
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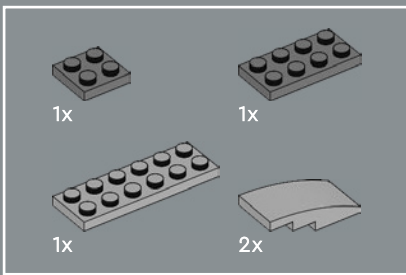




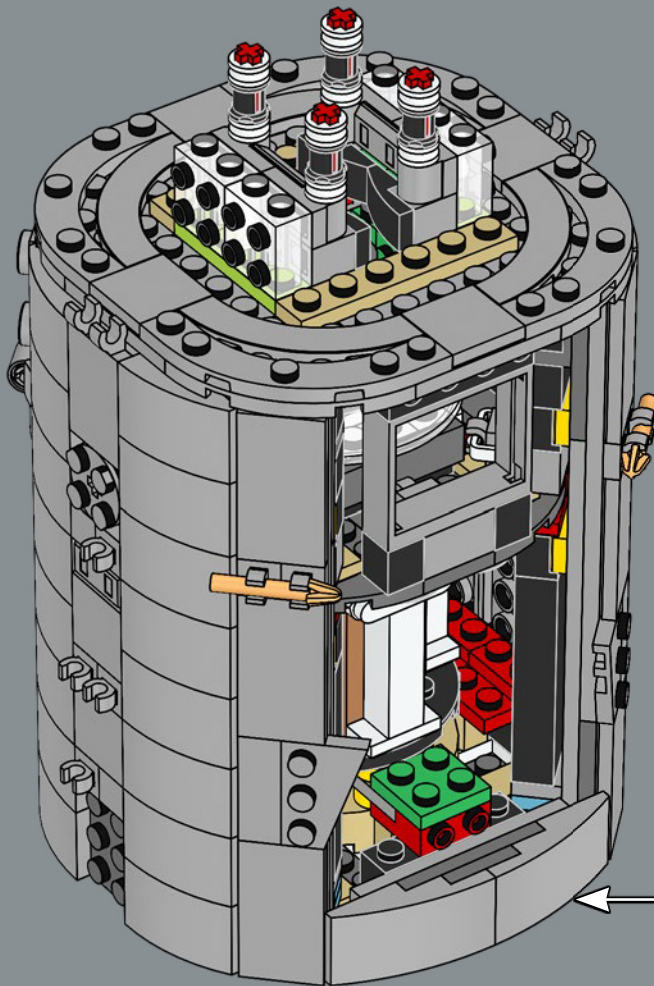
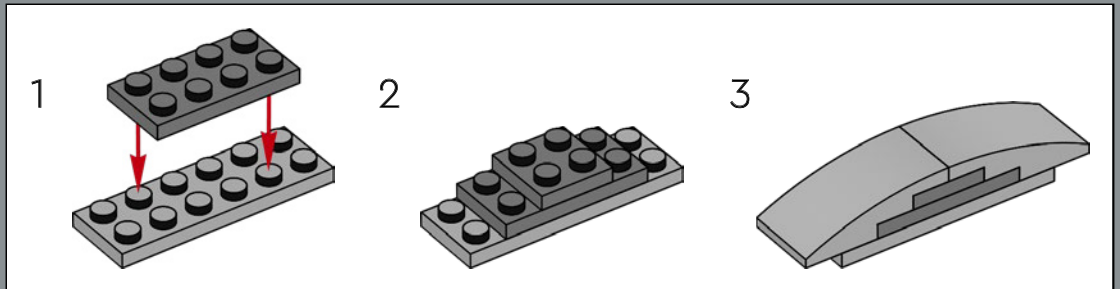
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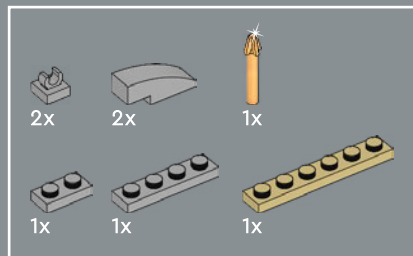
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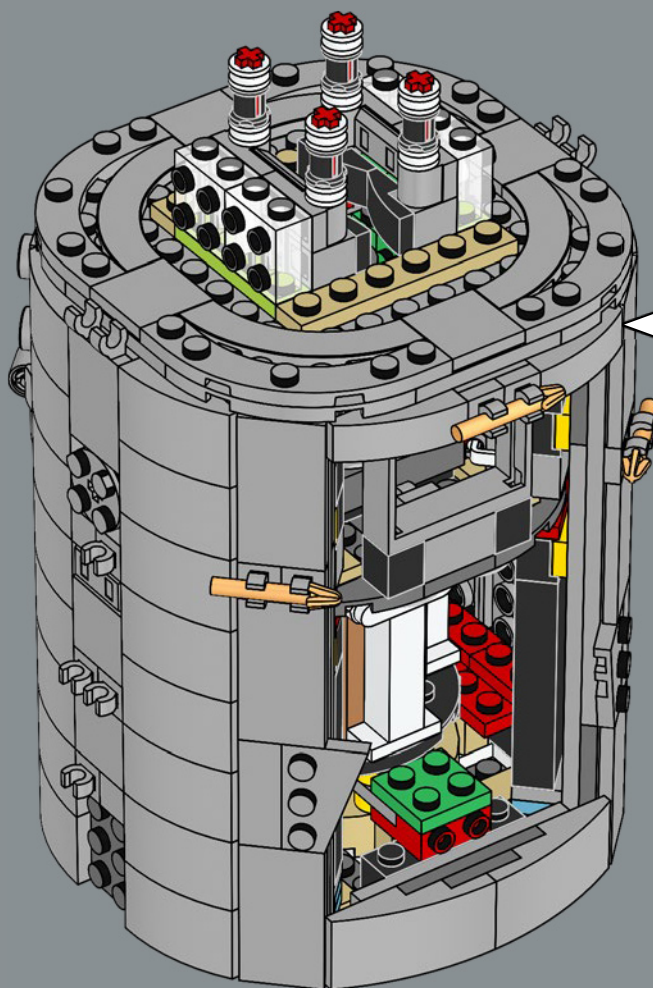
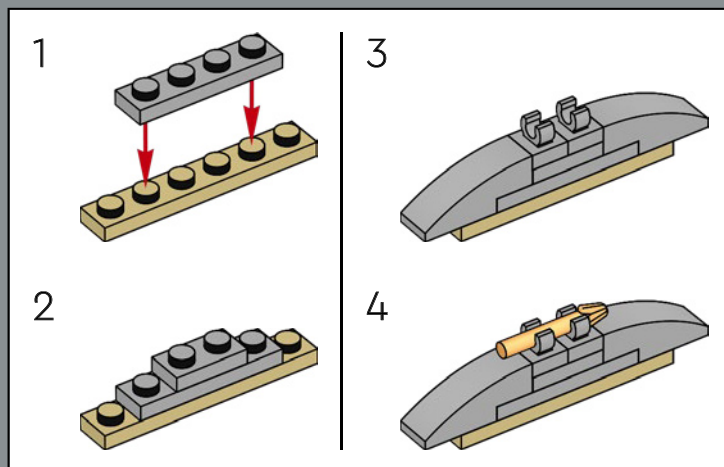


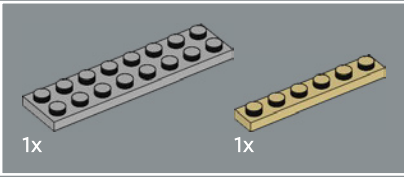
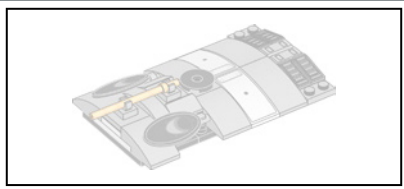
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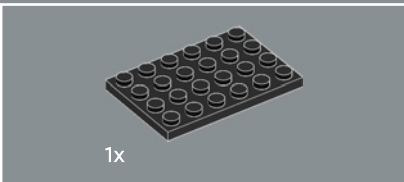
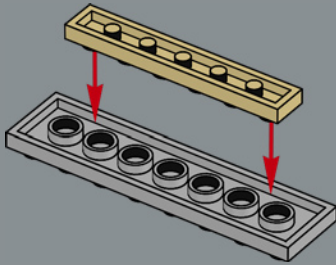


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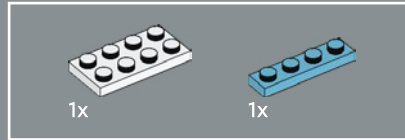
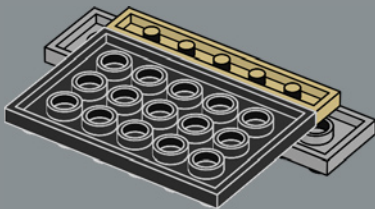




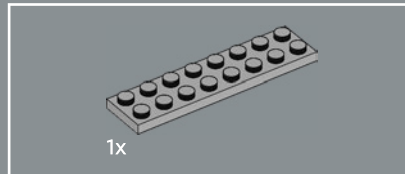
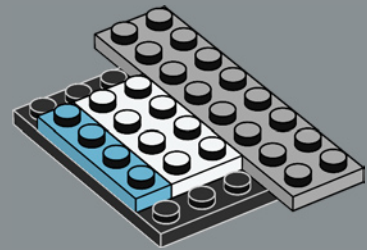
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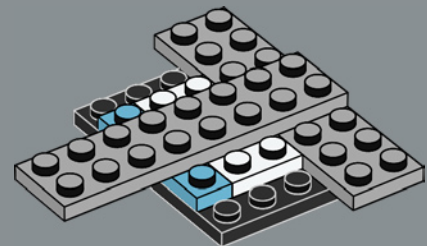
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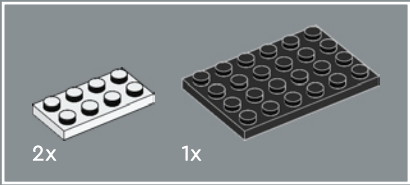


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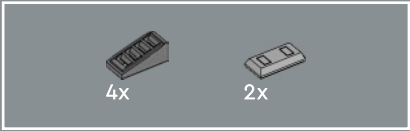
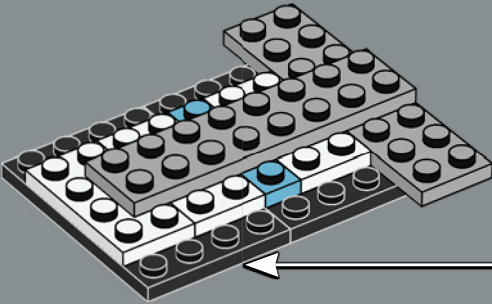
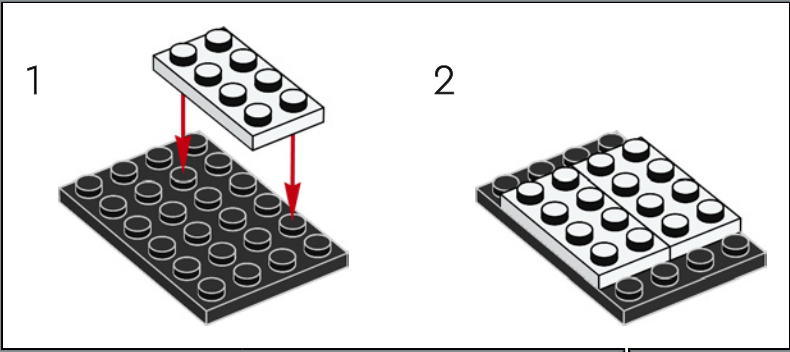


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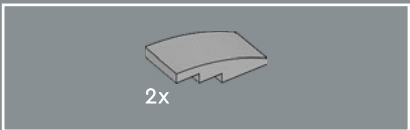
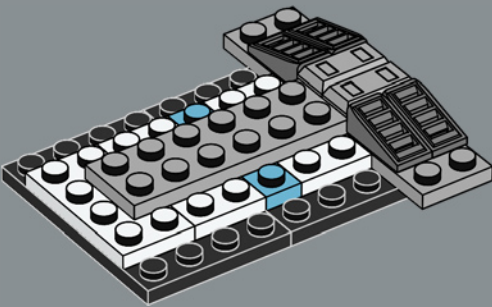




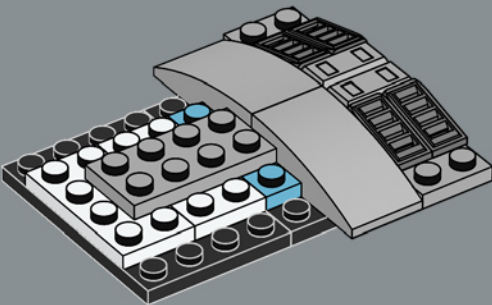
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182

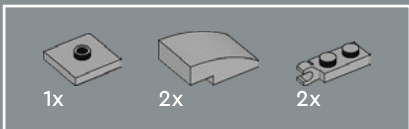
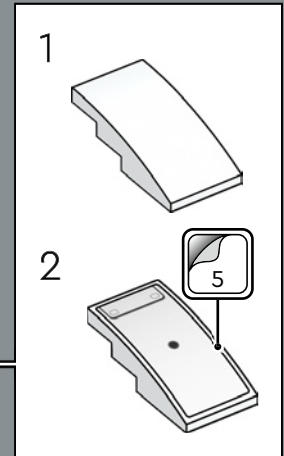
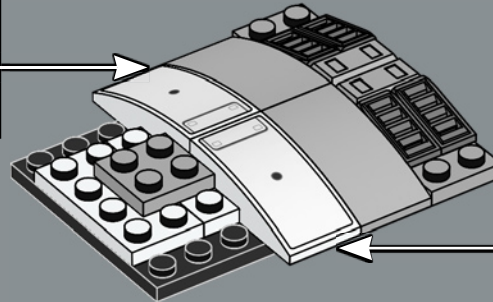
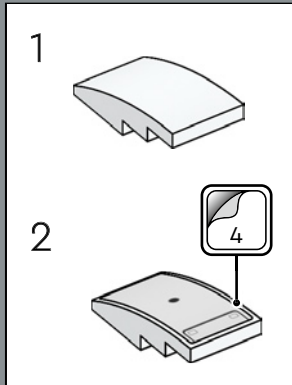


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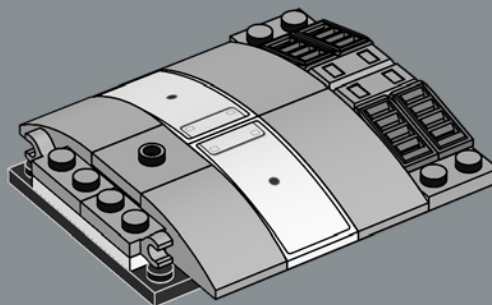


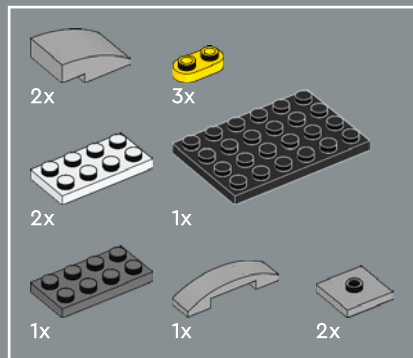


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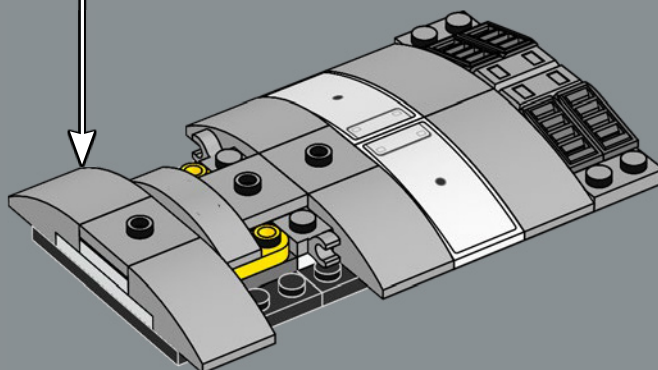
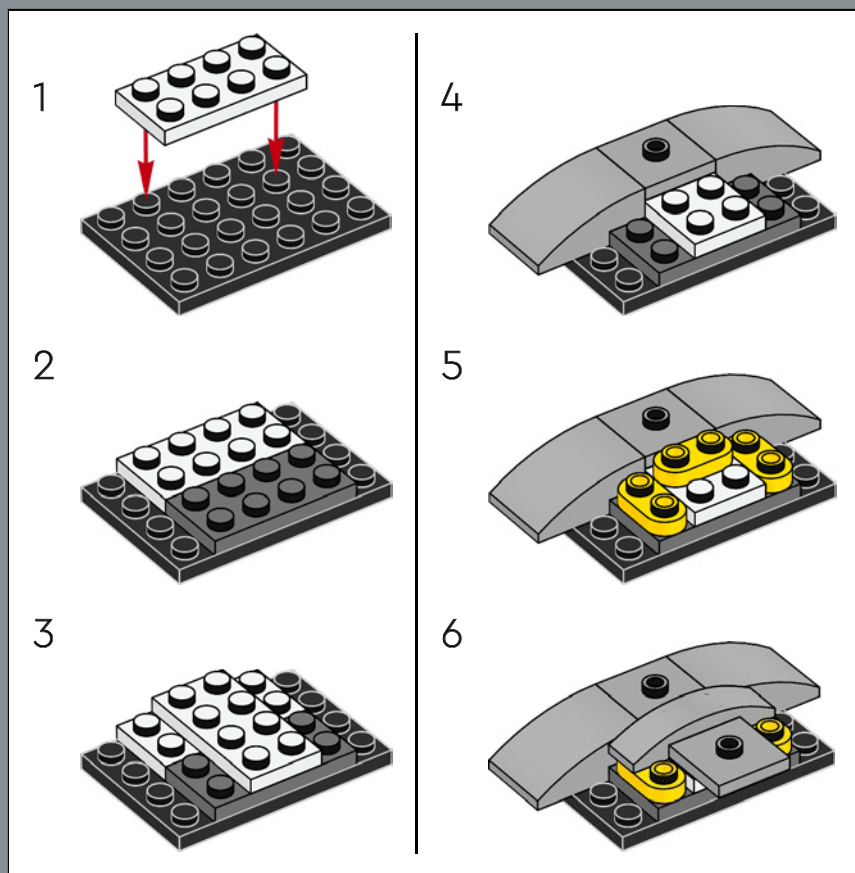


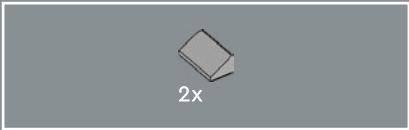
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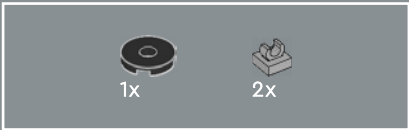
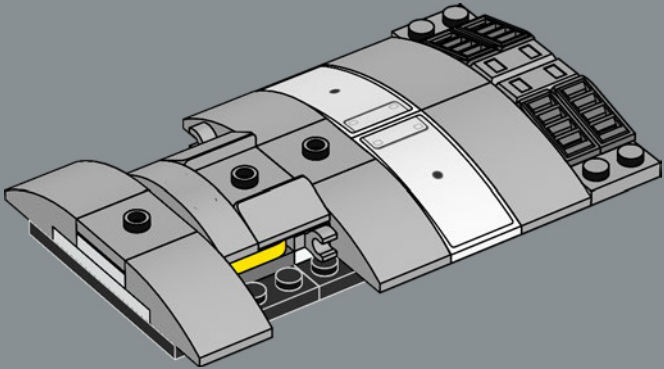


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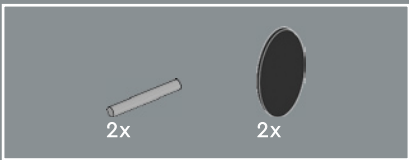
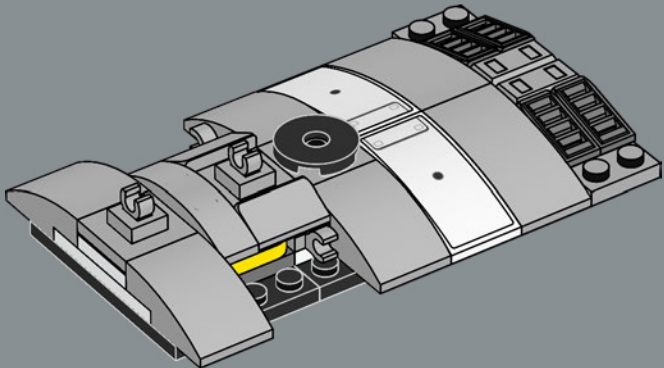




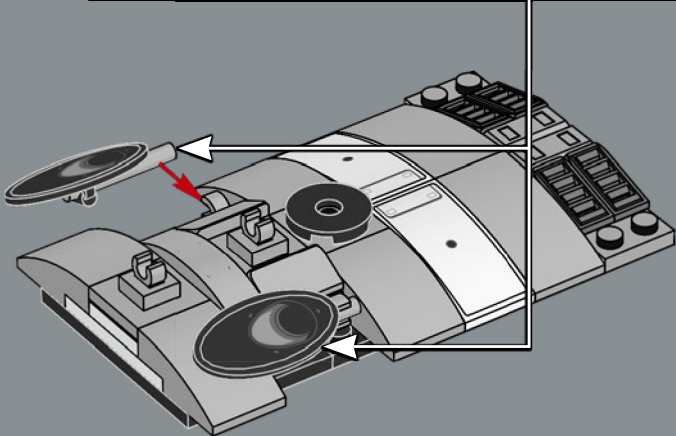
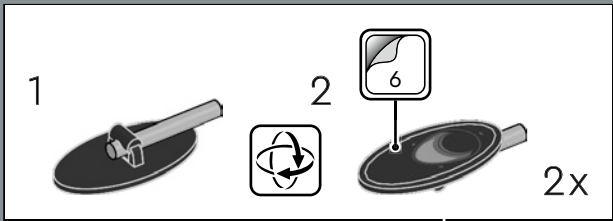
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188

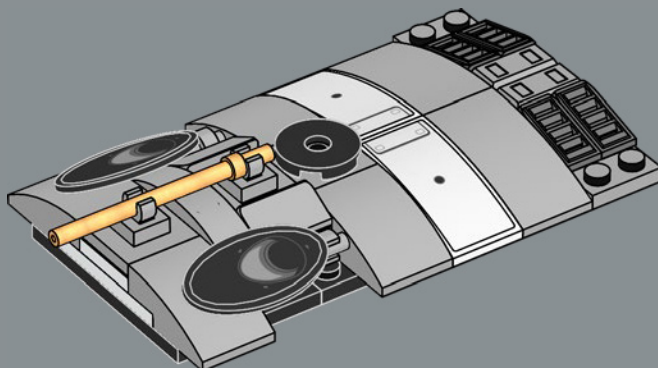


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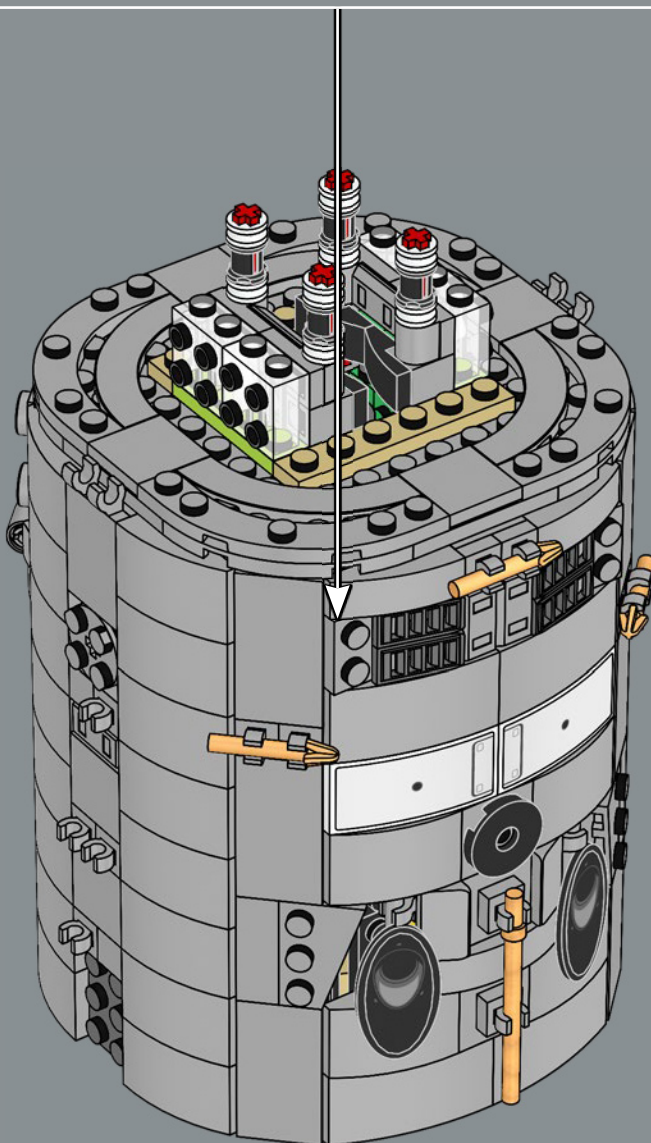


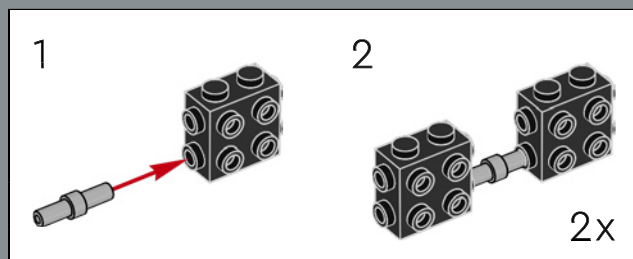
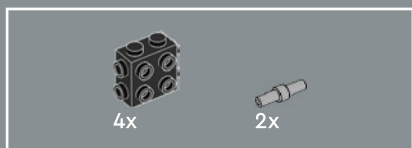


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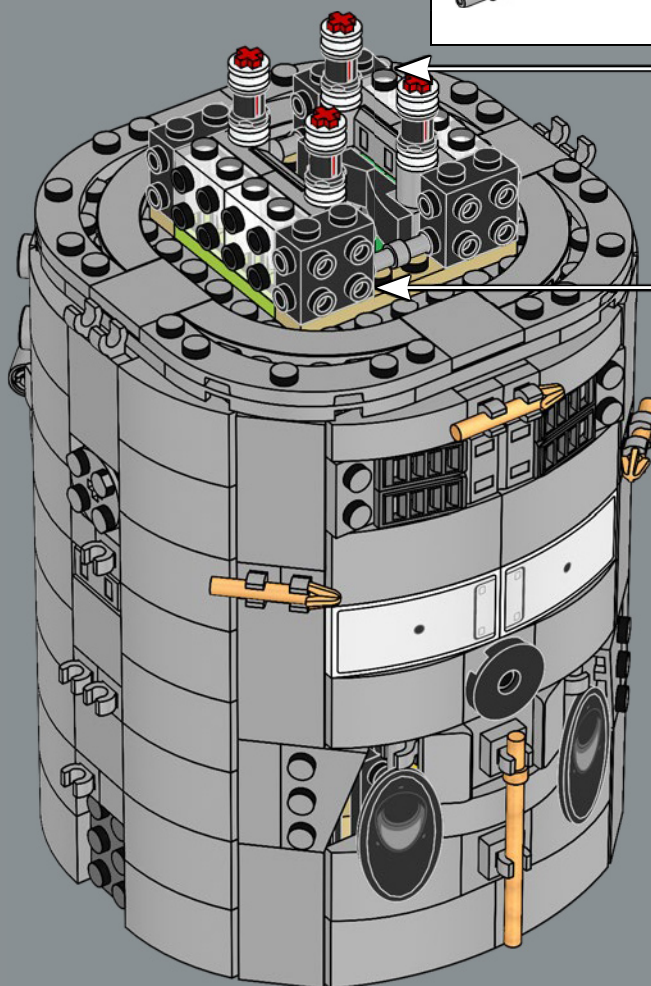


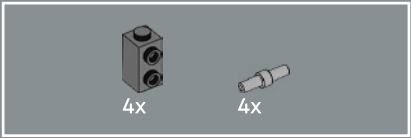
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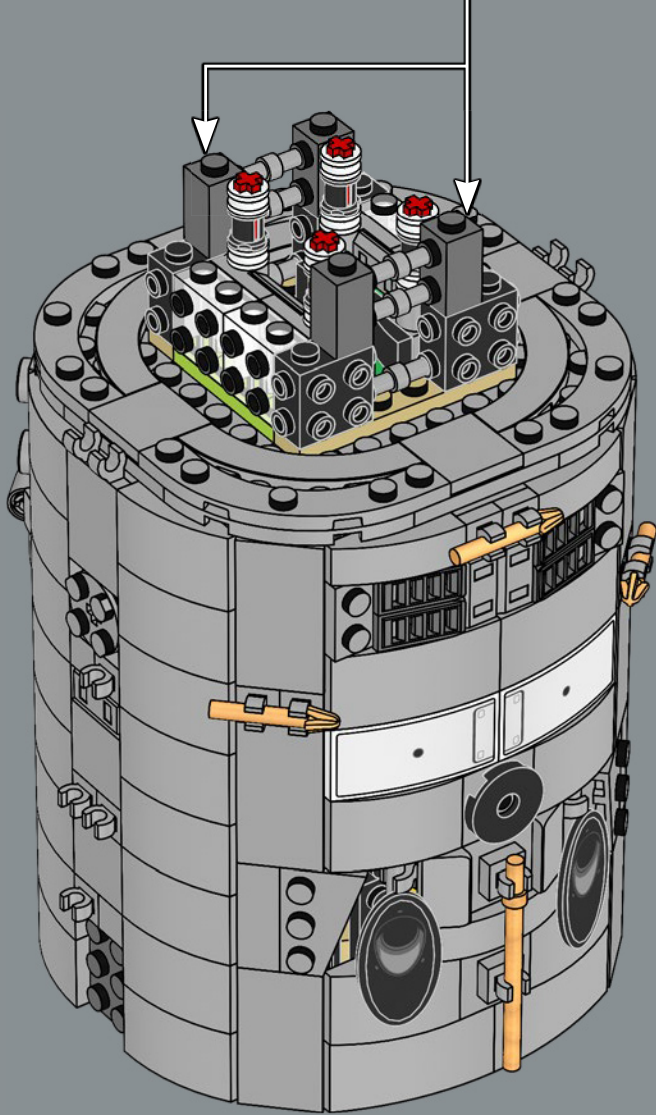
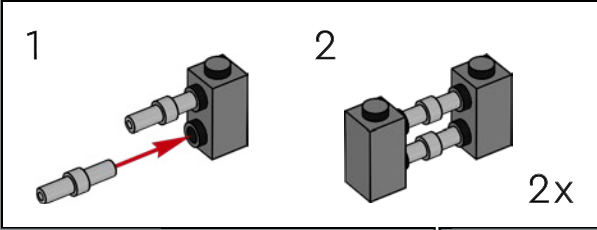


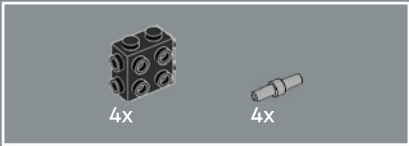
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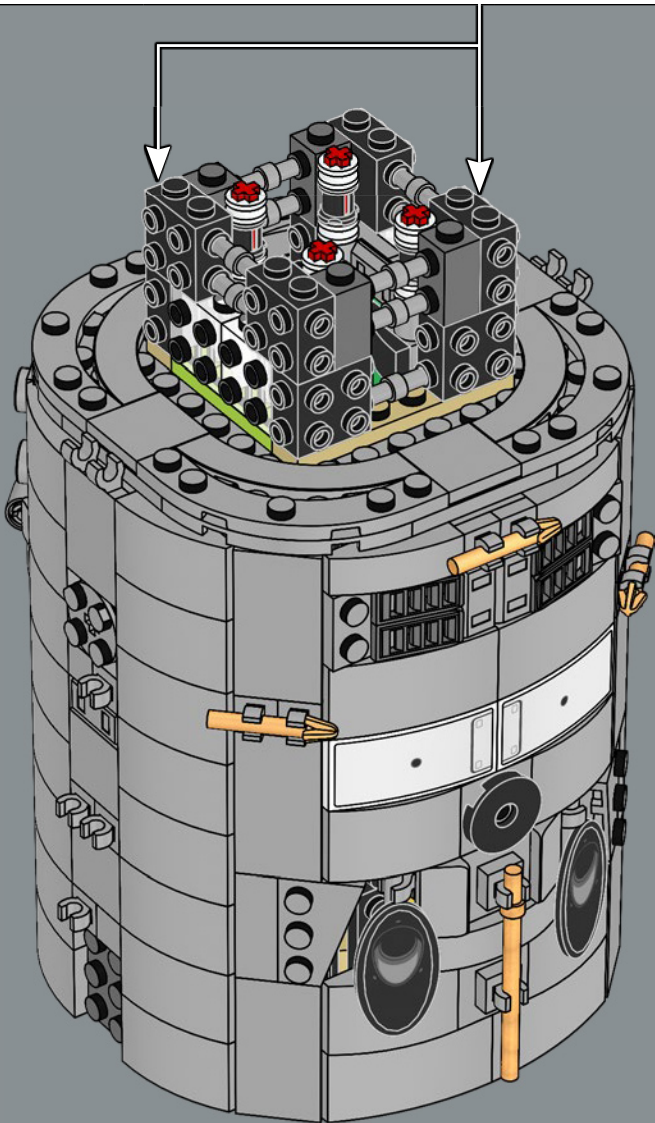
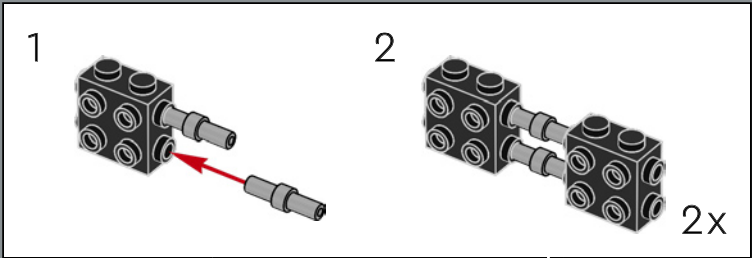


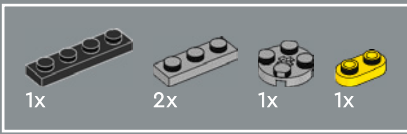
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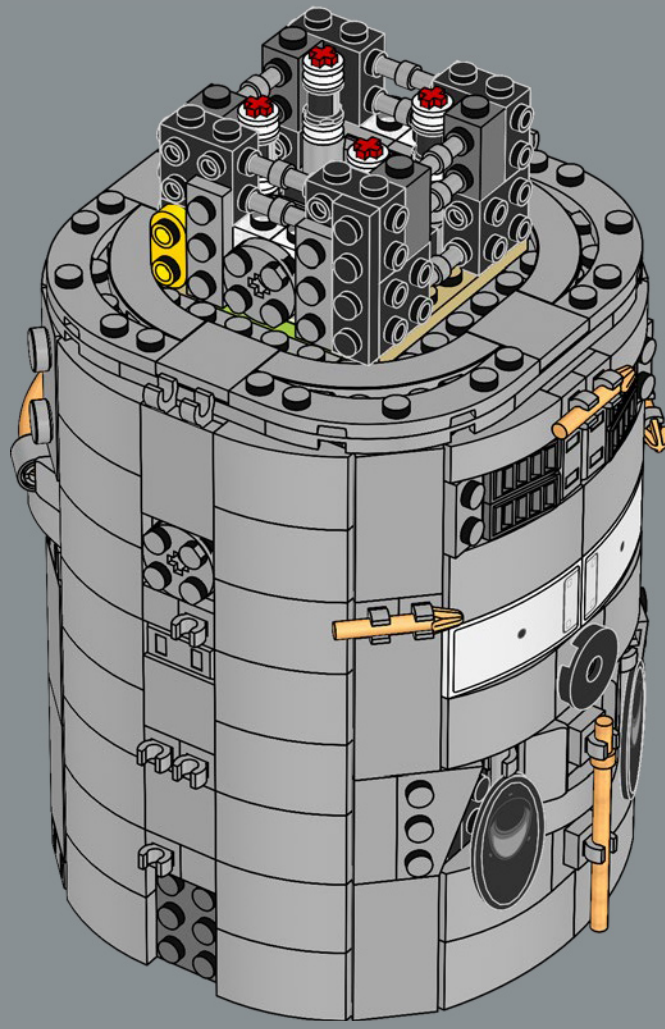


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195



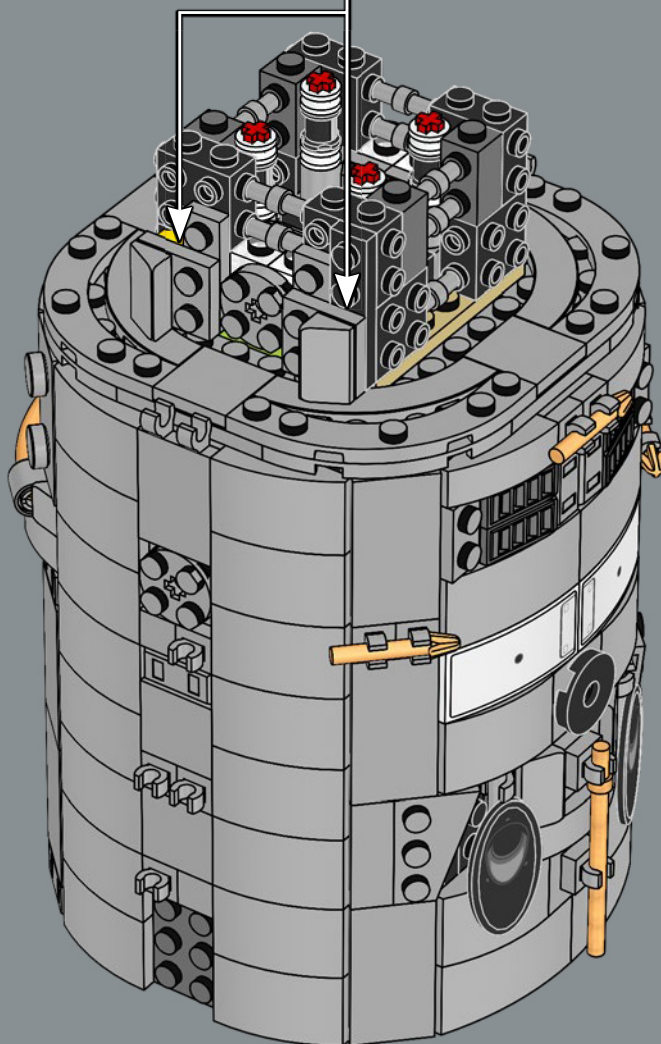
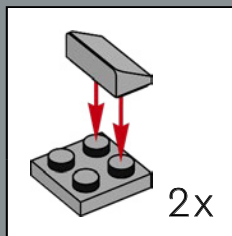


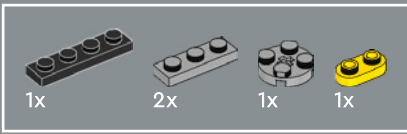
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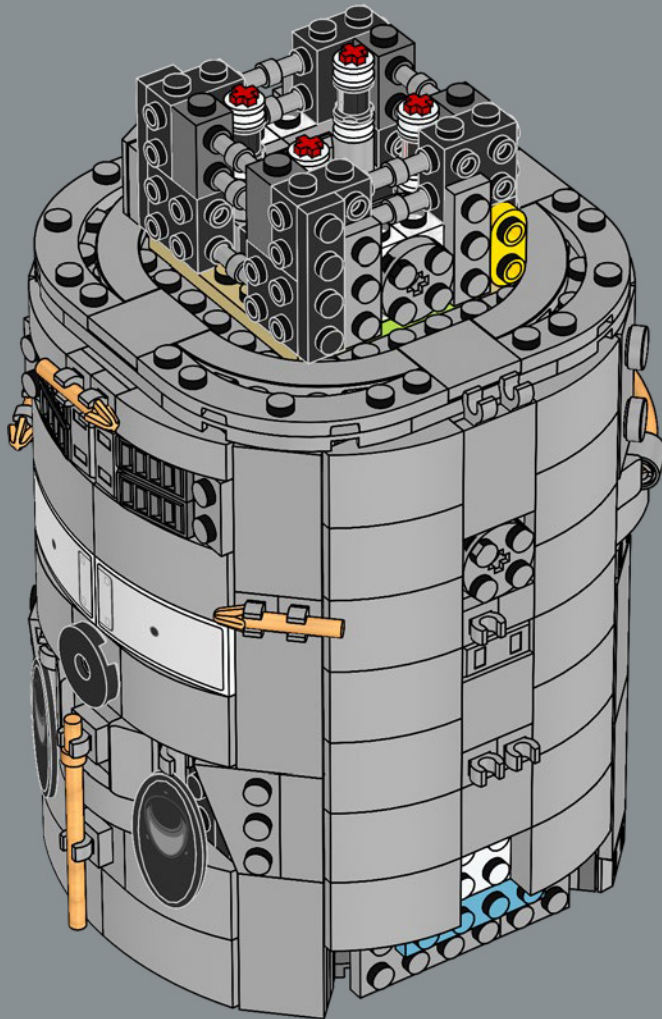
2x

196





197



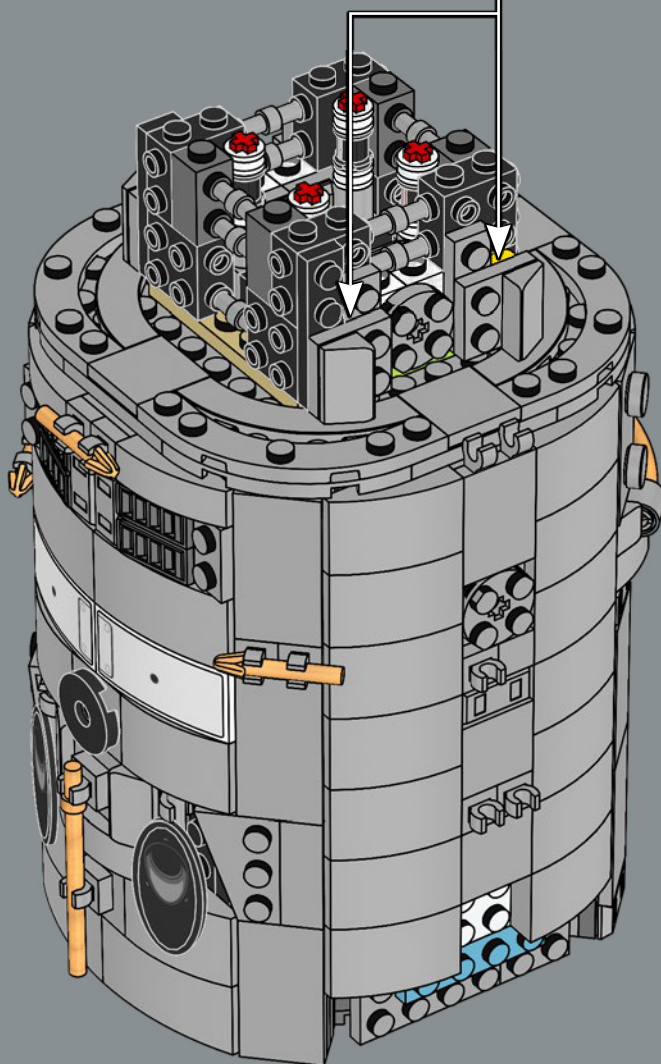
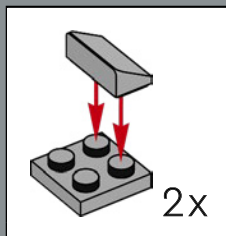


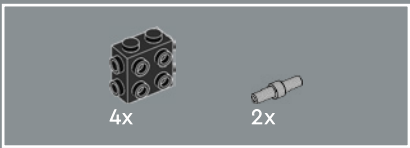
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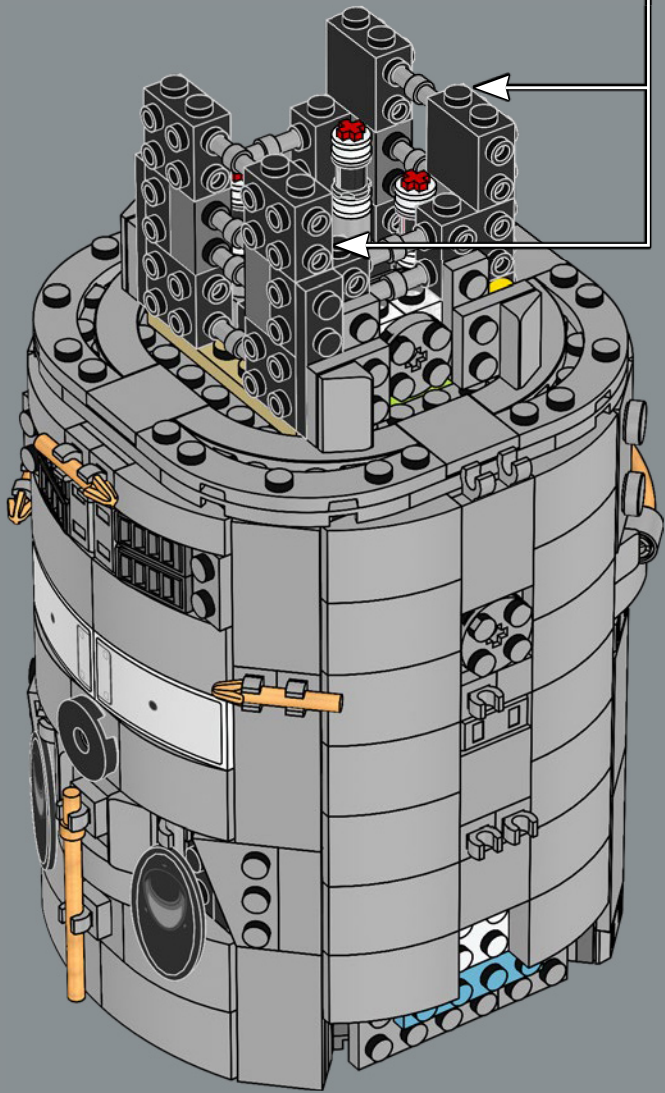
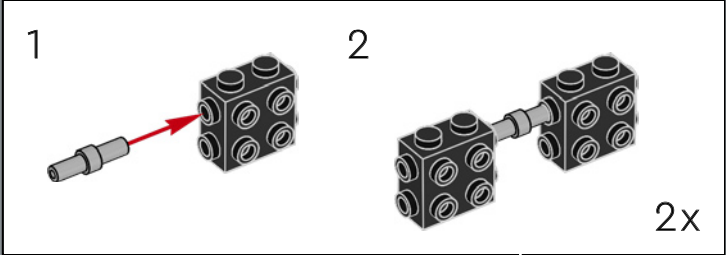
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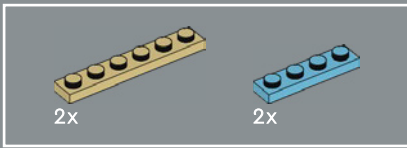
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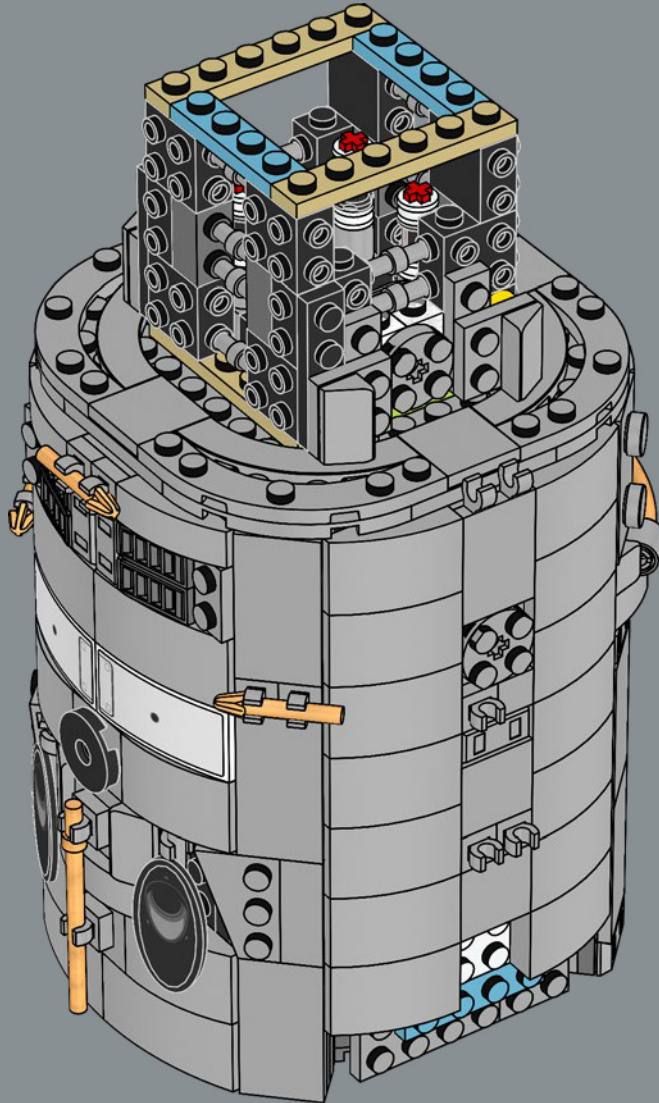


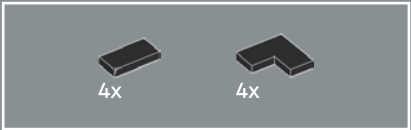
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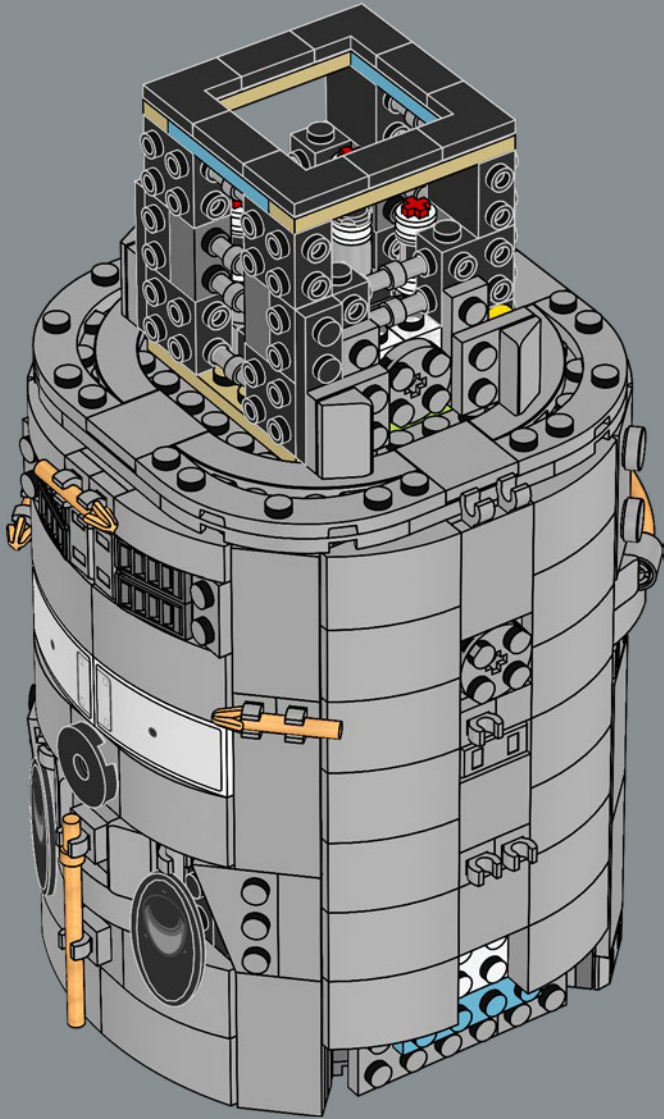


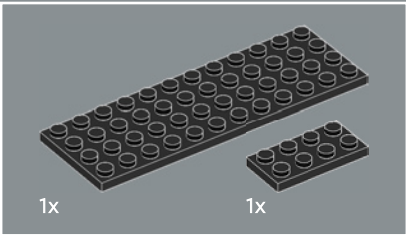
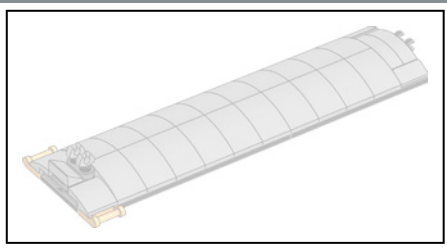
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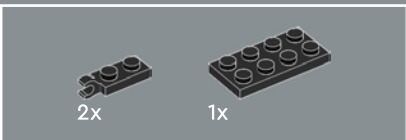
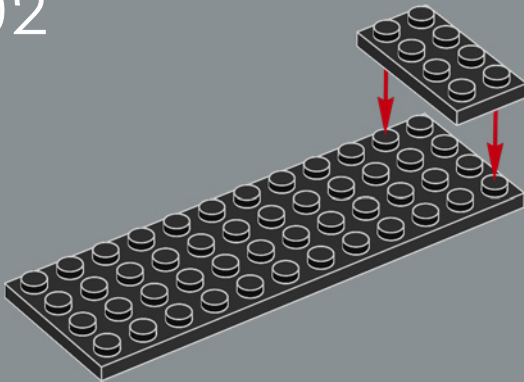


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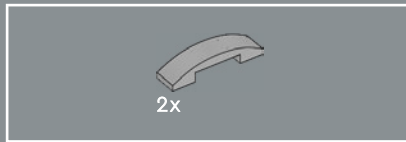
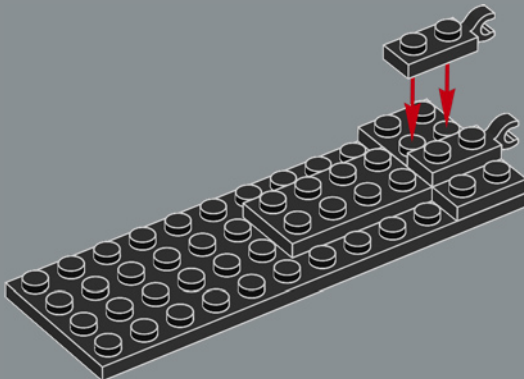




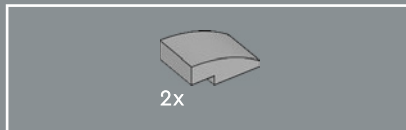
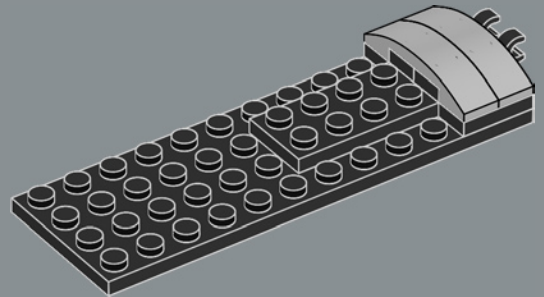
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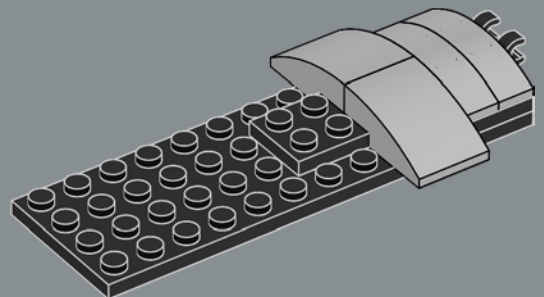
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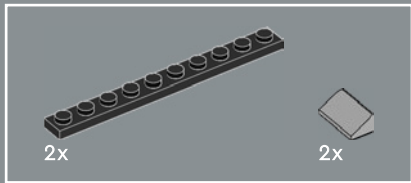


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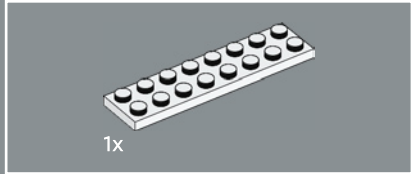
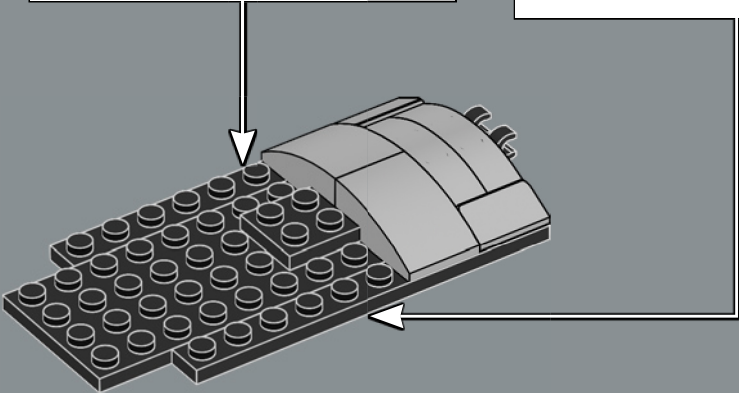
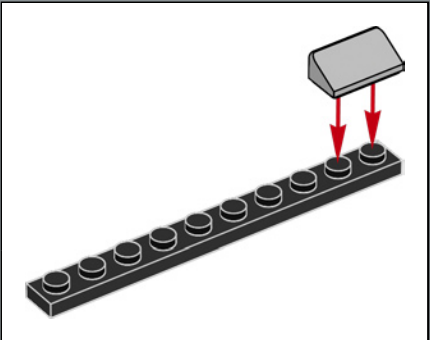
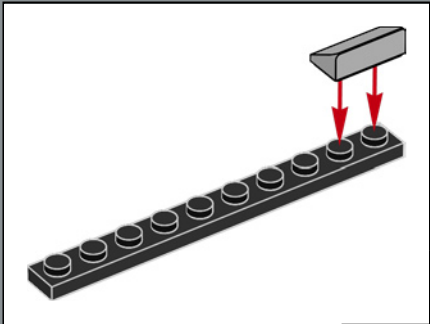


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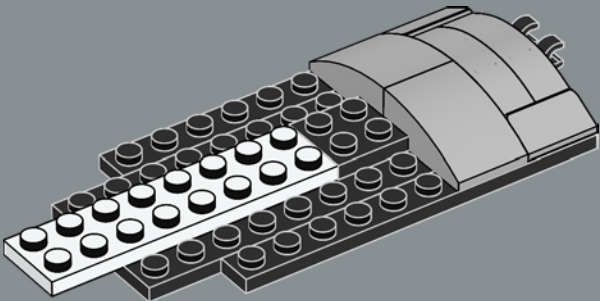


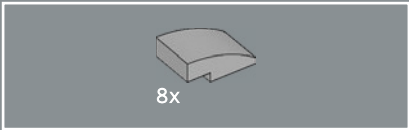


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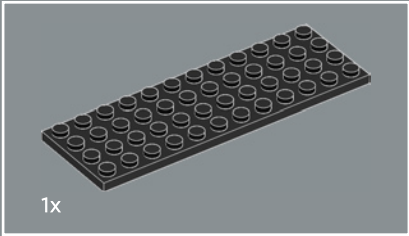
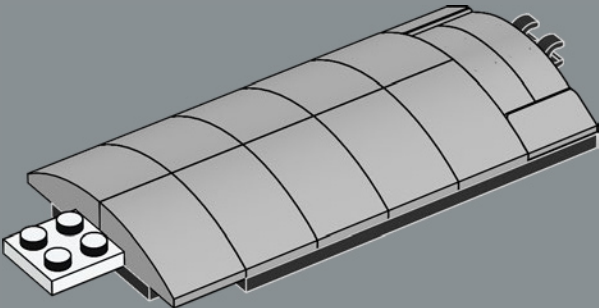


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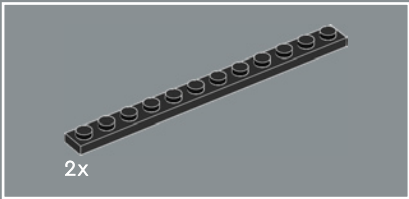
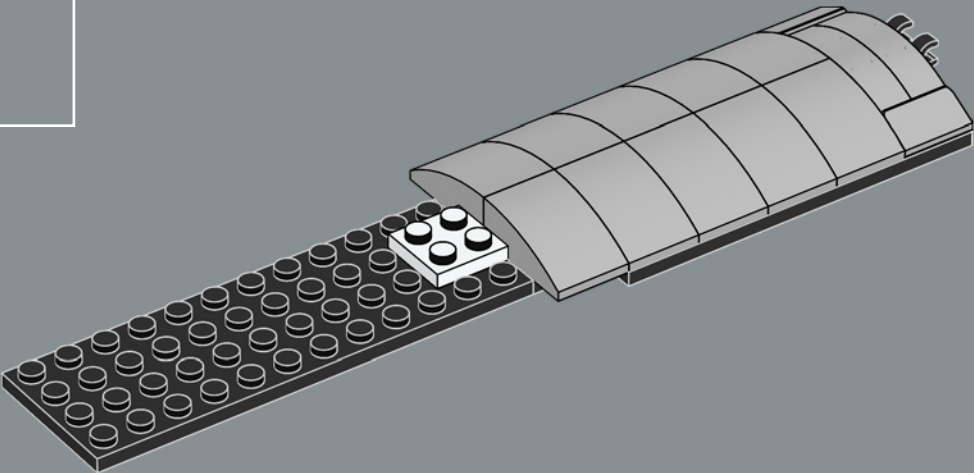




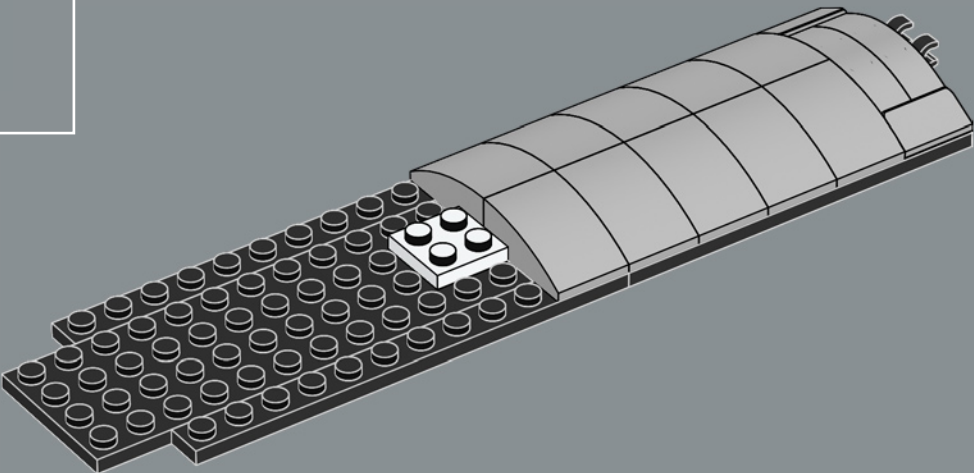
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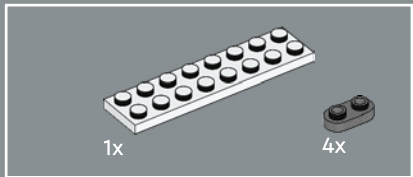


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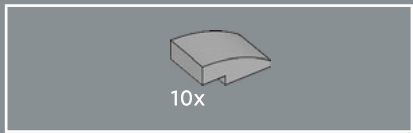
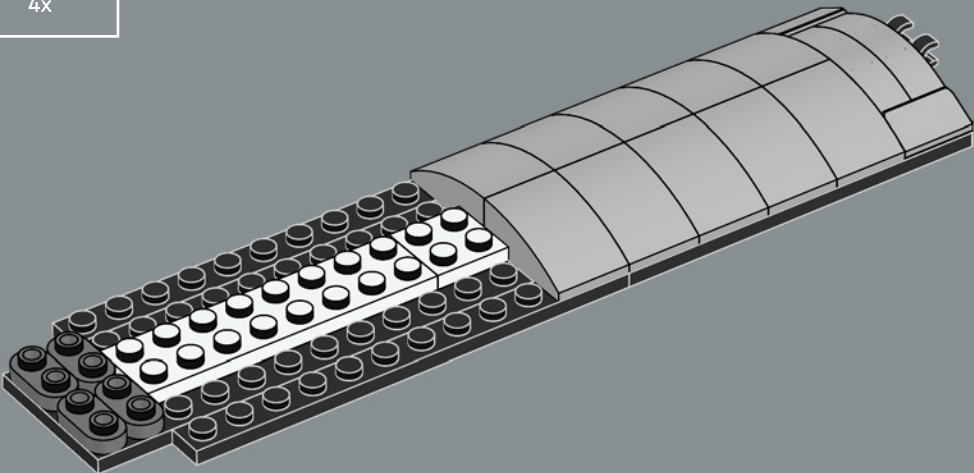


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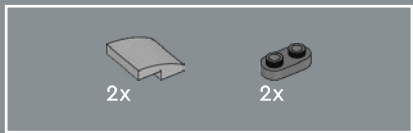
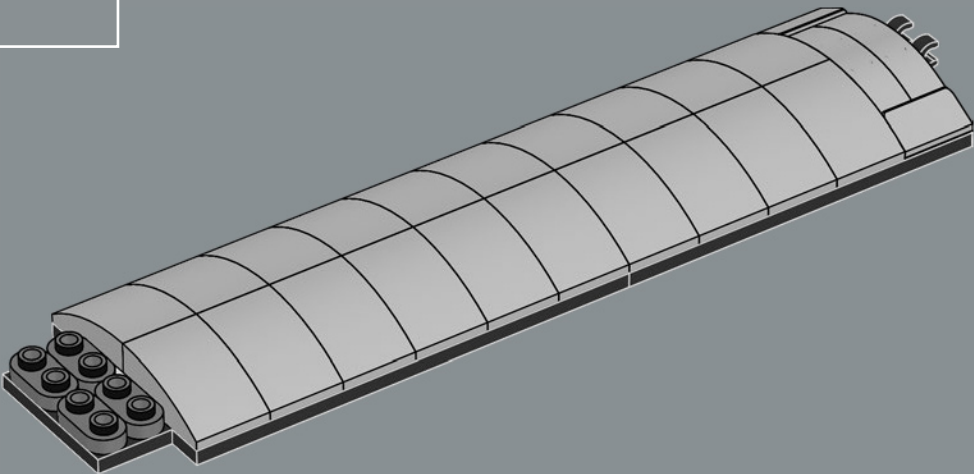




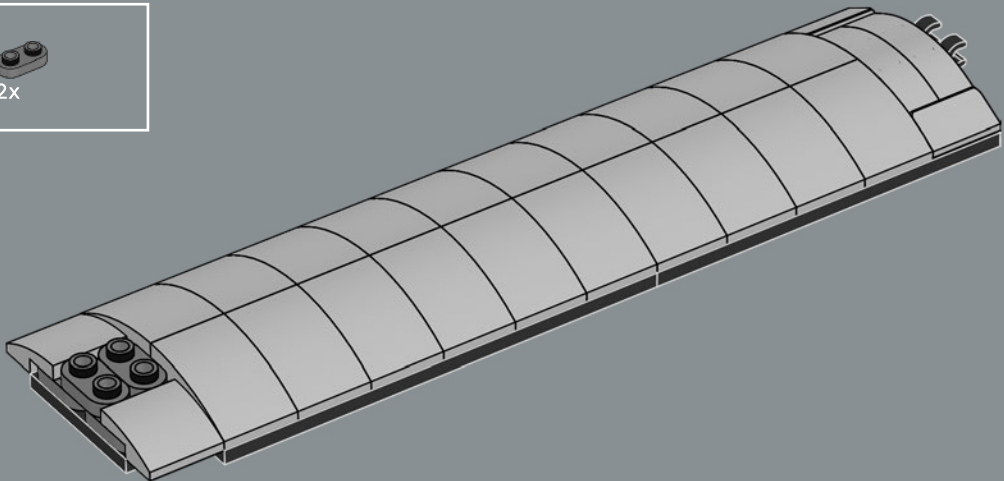
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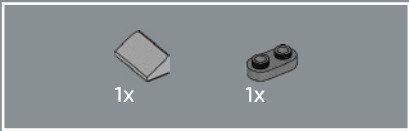
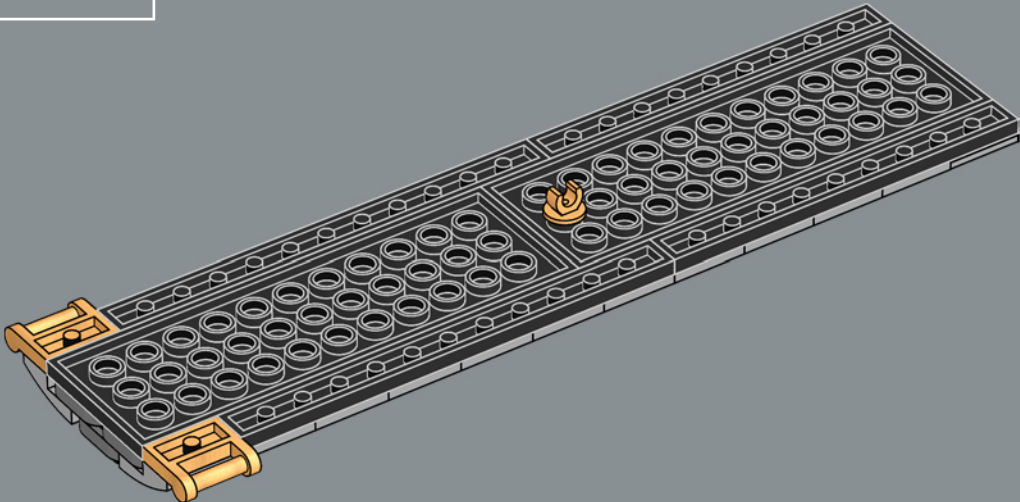


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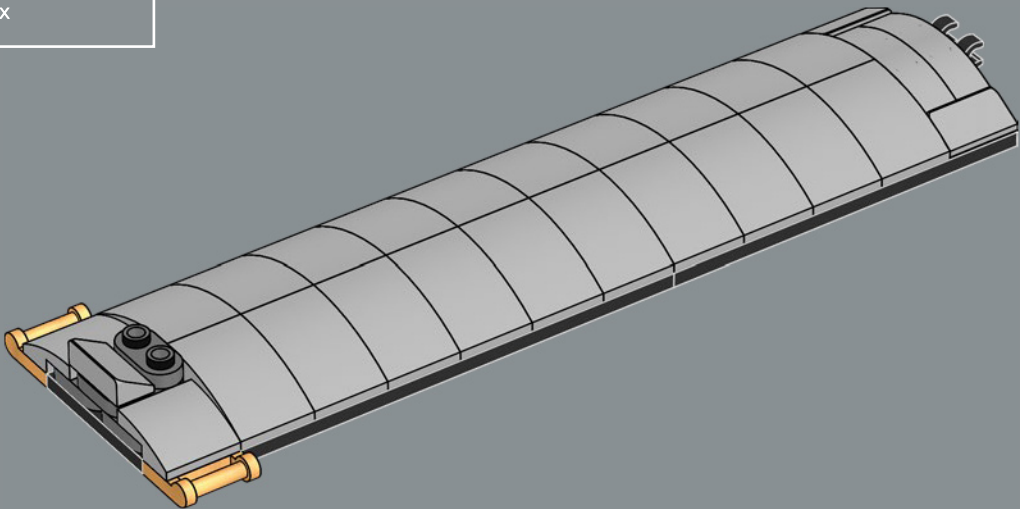




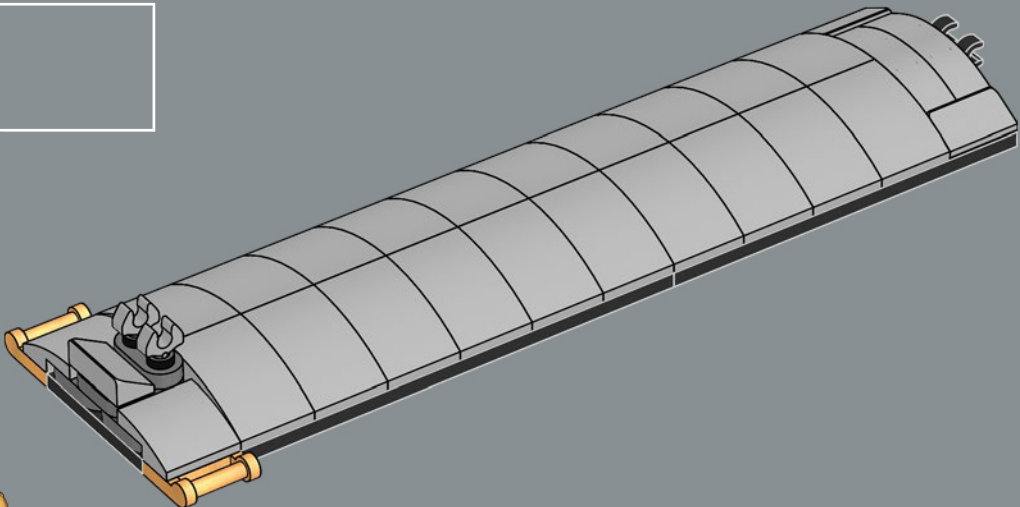
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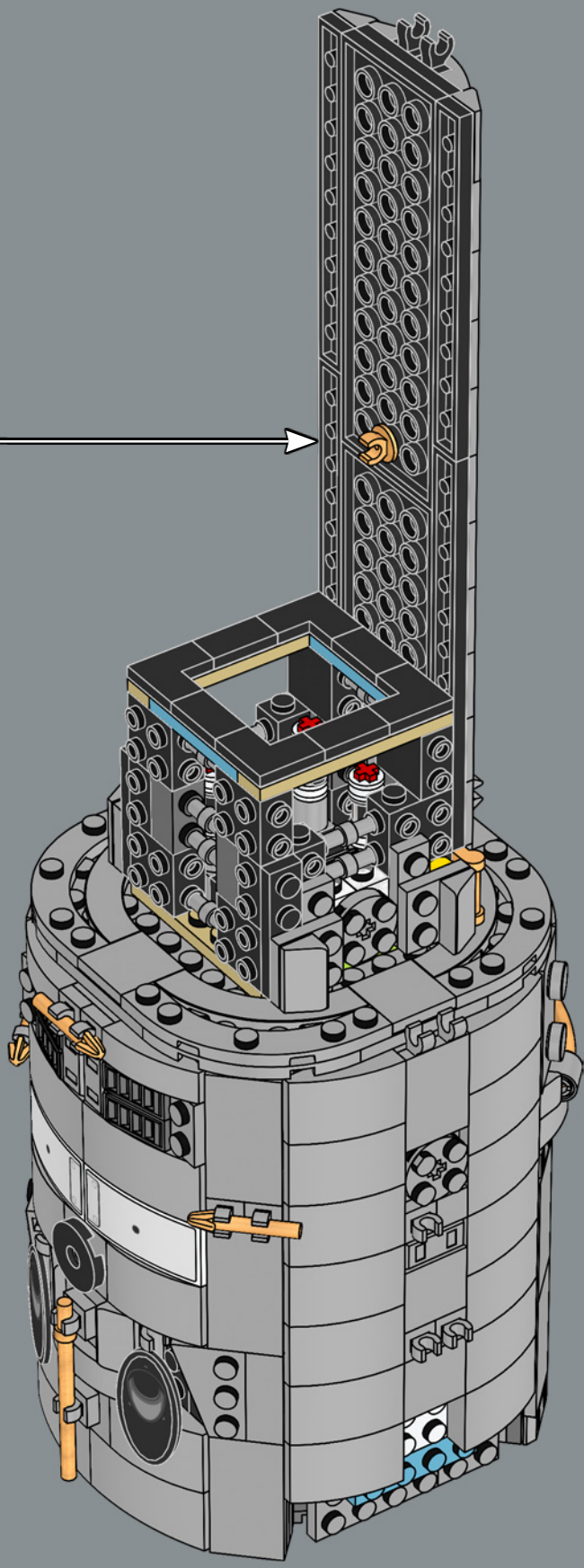


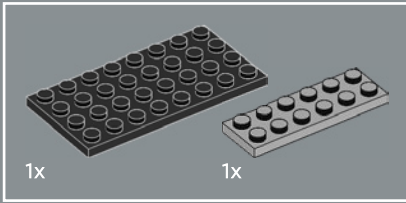
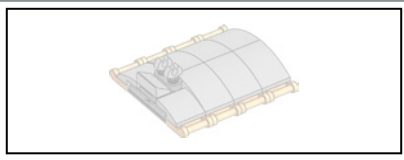
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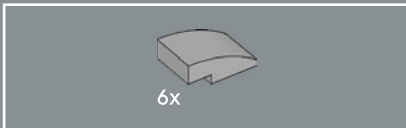
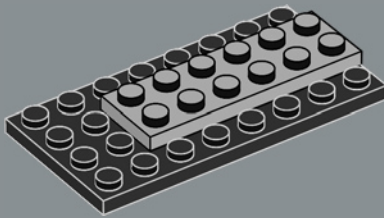
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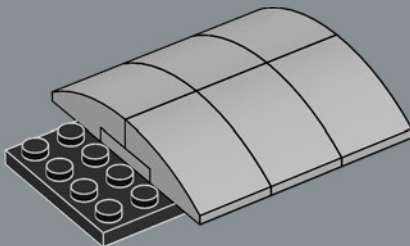




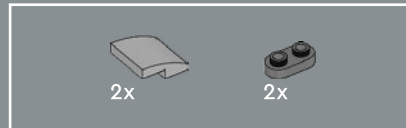
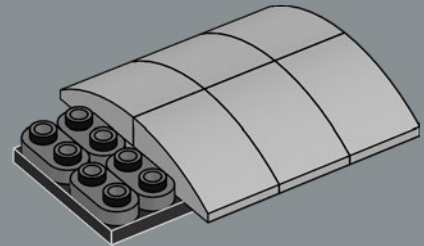
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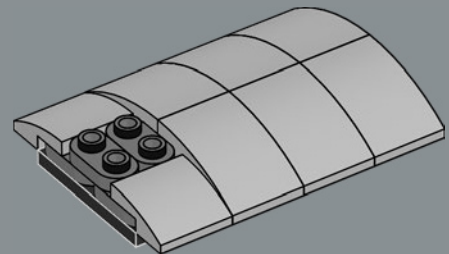
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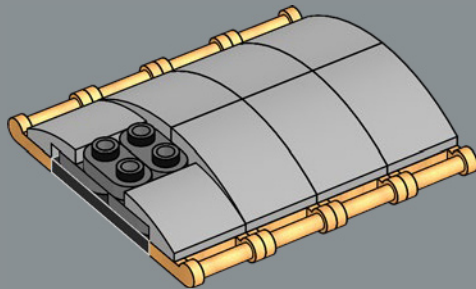
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8x

222

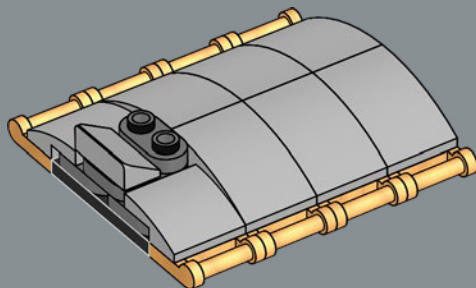


1x



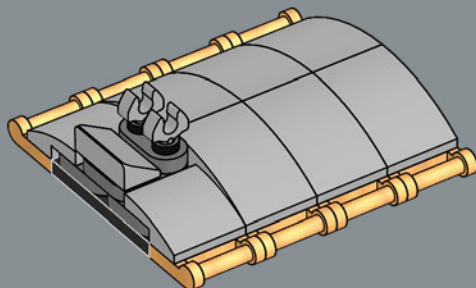
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223



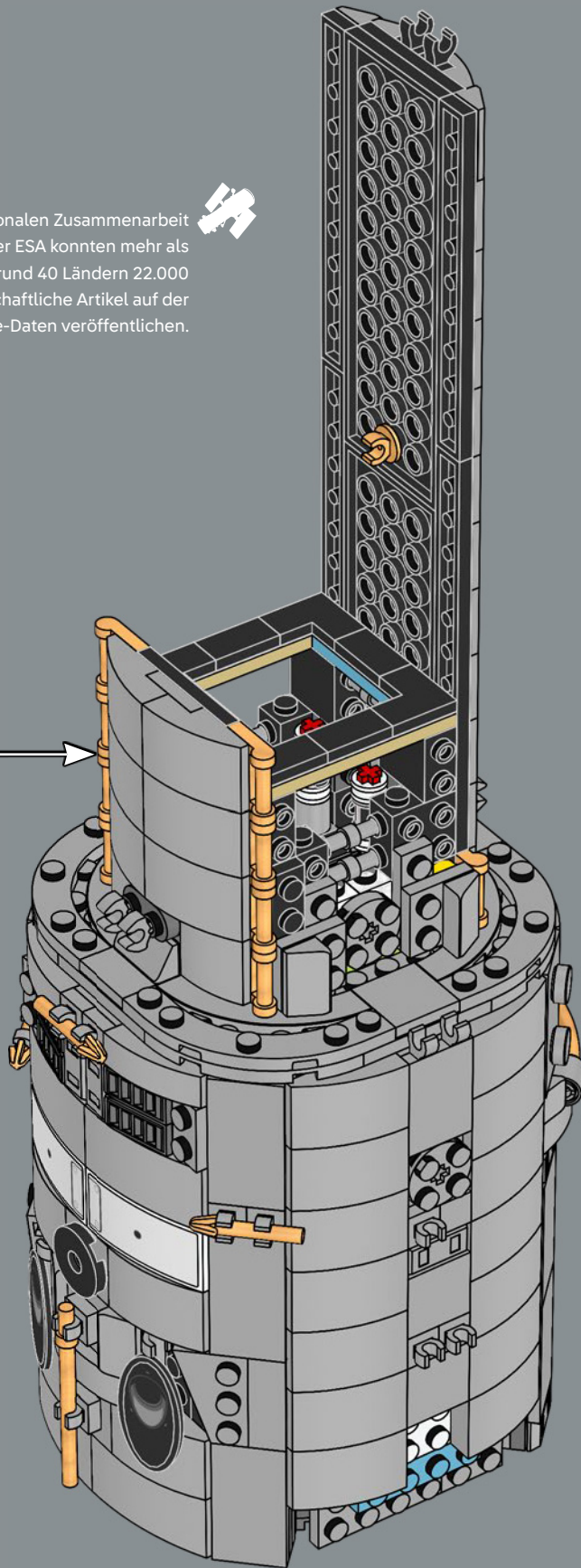
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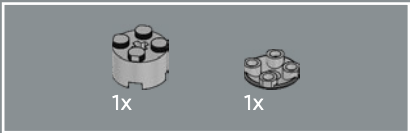
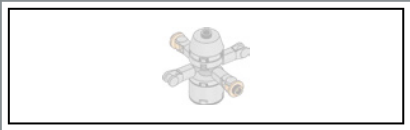
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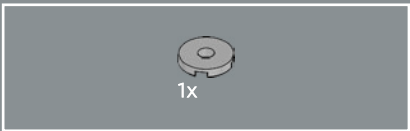
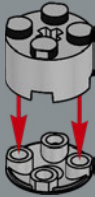
225

Dank der engen internationalen Zusammenarbeit zwischen der NASA und der ESA konnten mehr als 25.000 Astronomen aus rund 40 Ländern 22.000 begutachtete wissenschaftliche Artikel auf der Grundlage von Hubble-Daten veröffentlichen.

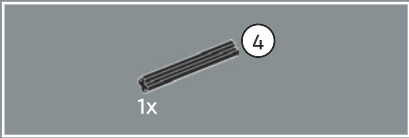




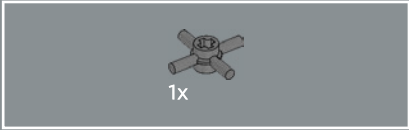
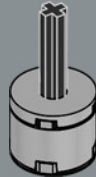
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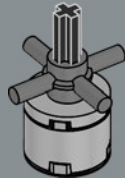
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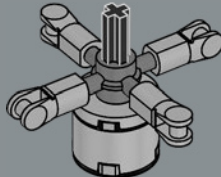
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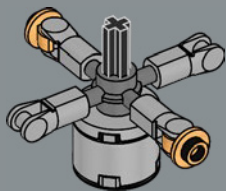


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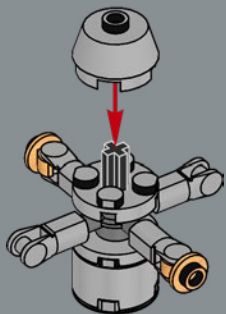




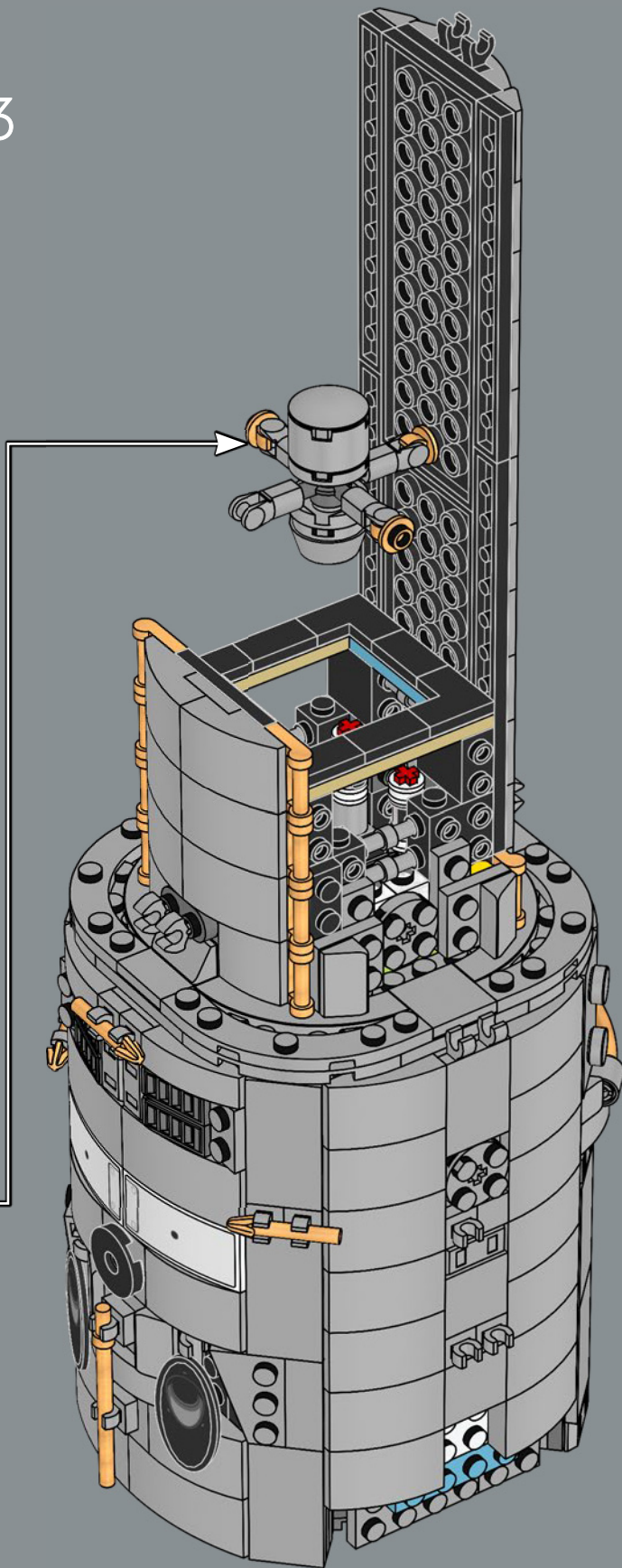
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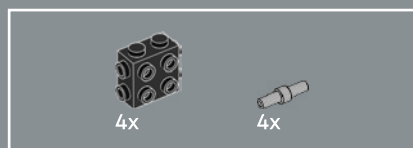
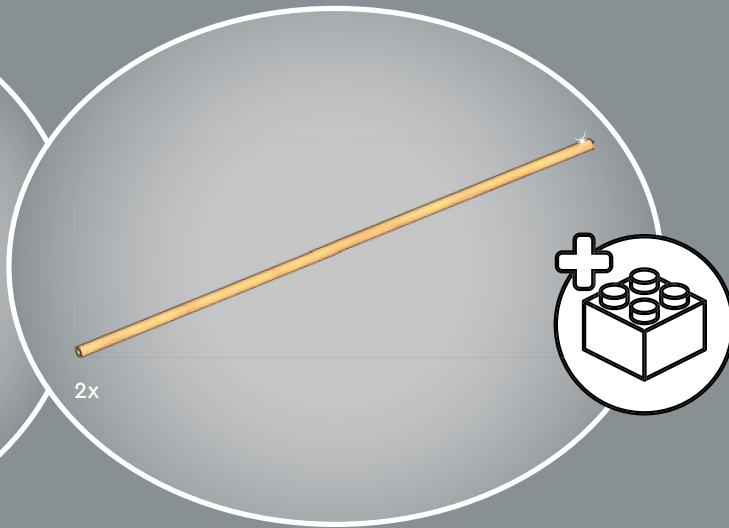


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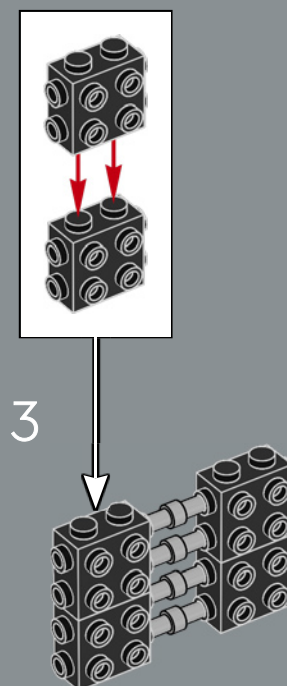
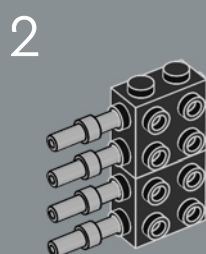
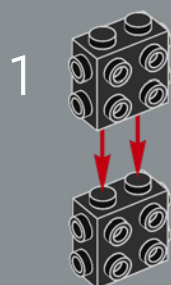


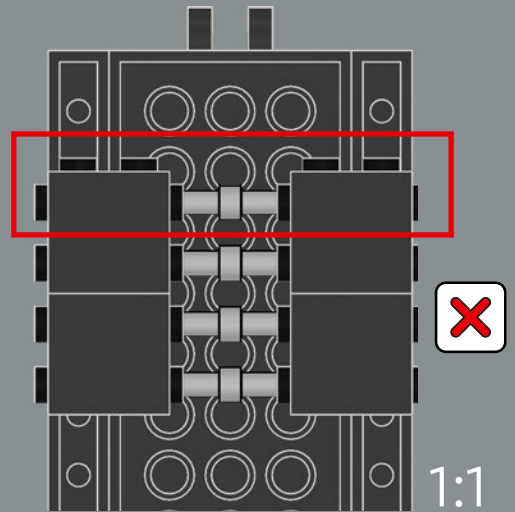
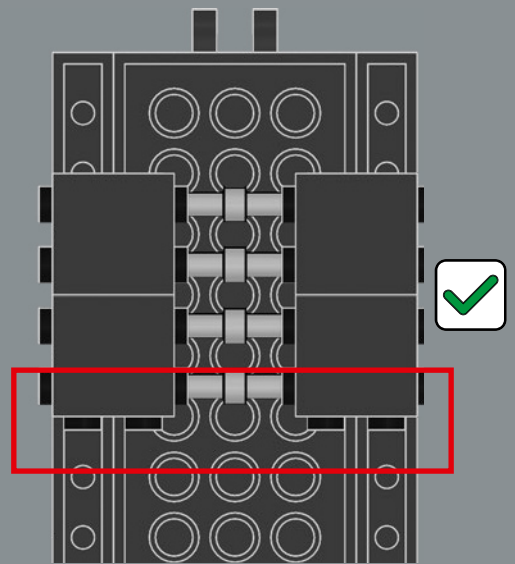
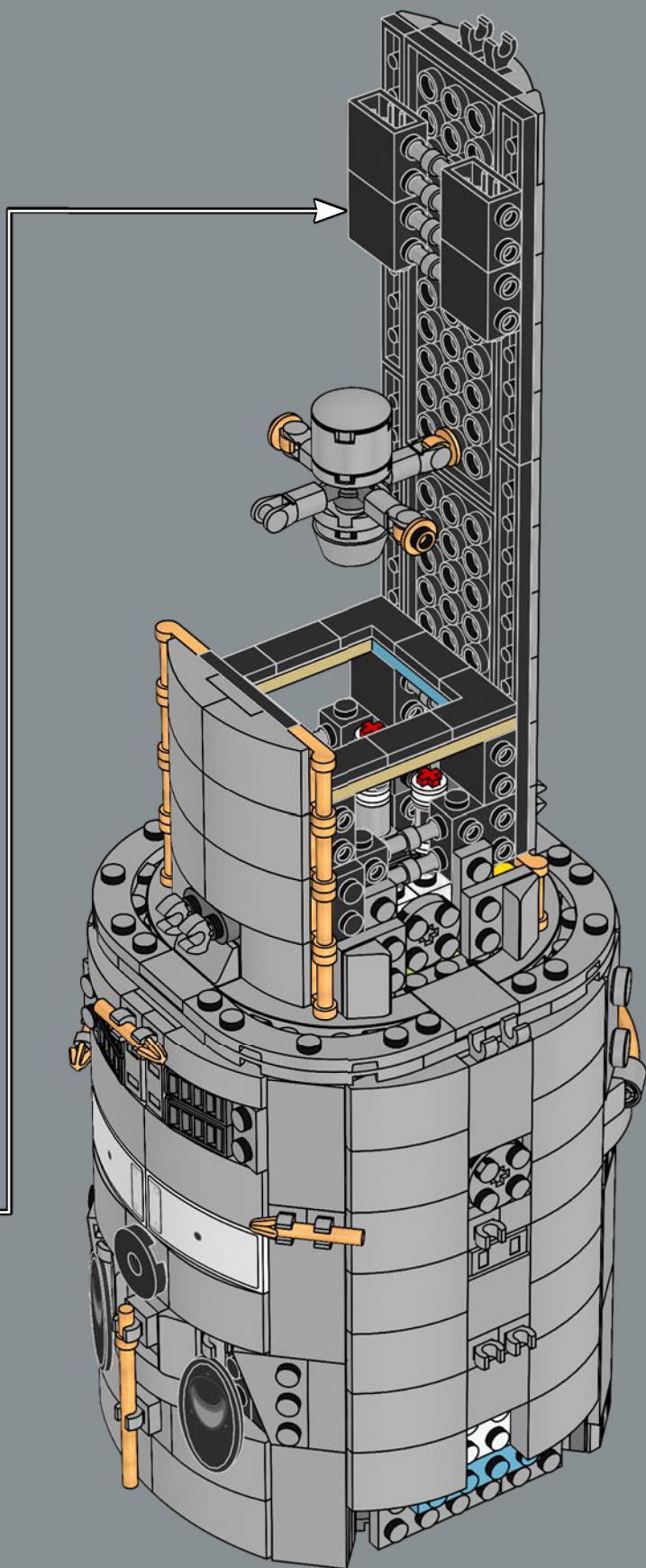
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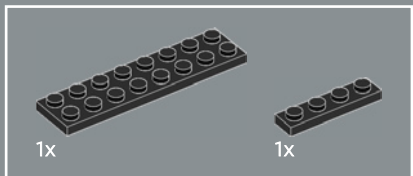
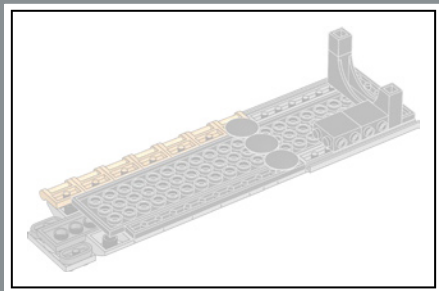




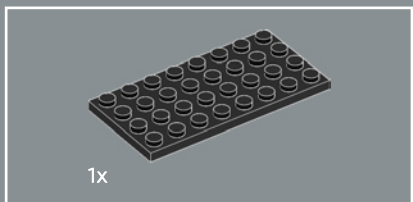
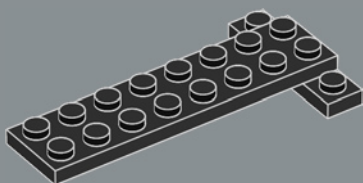
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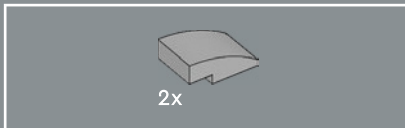
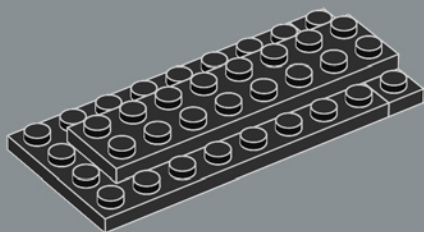




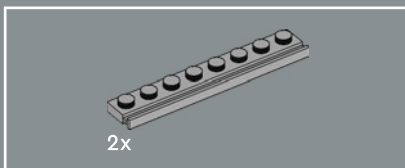
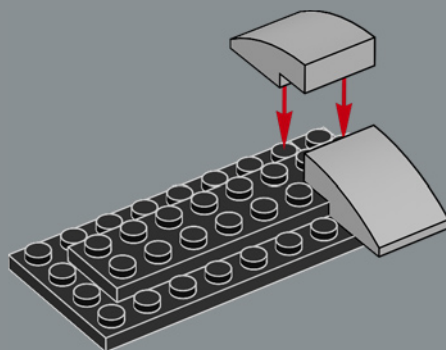
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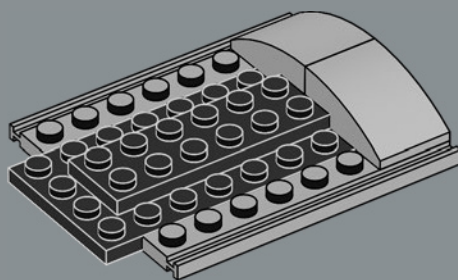
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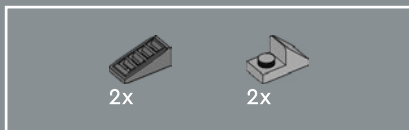


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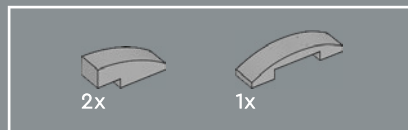
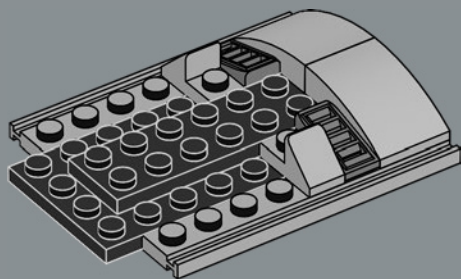


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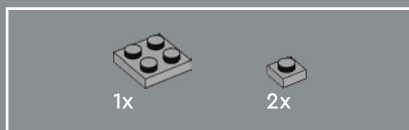
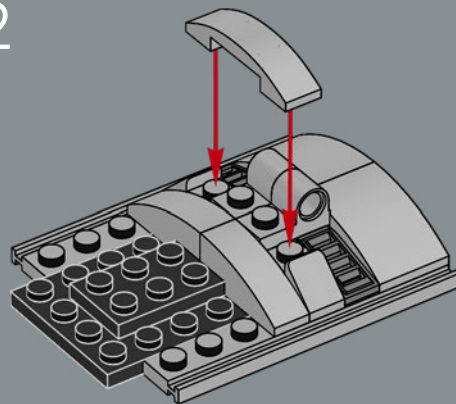




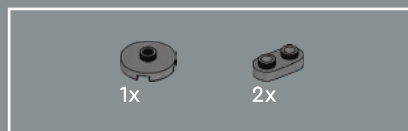
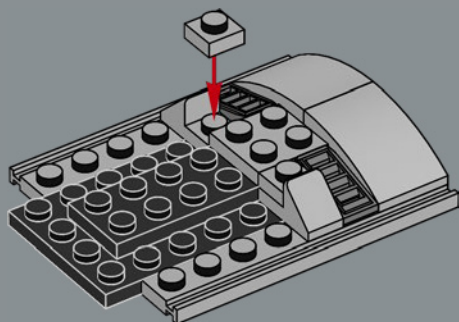
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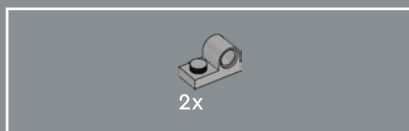
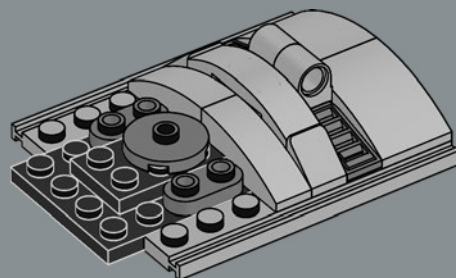
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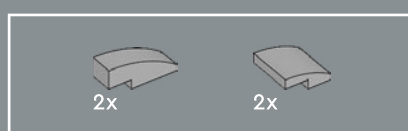
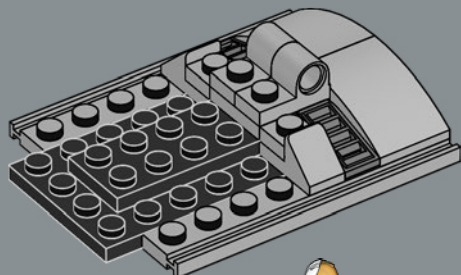
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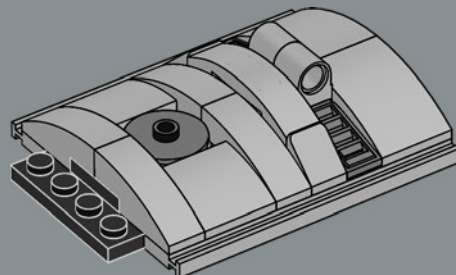
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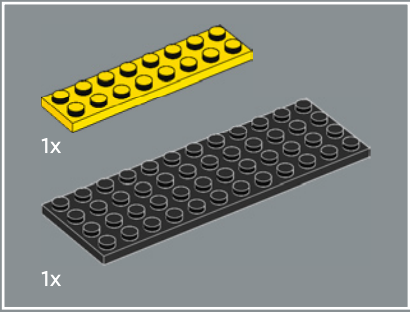


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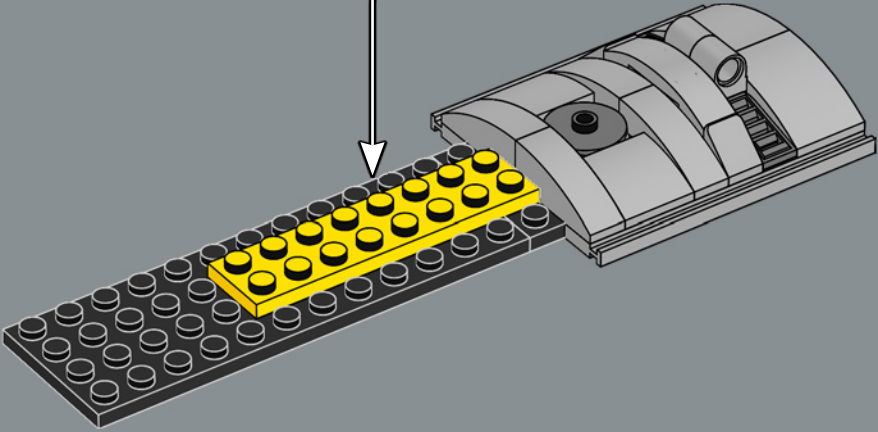
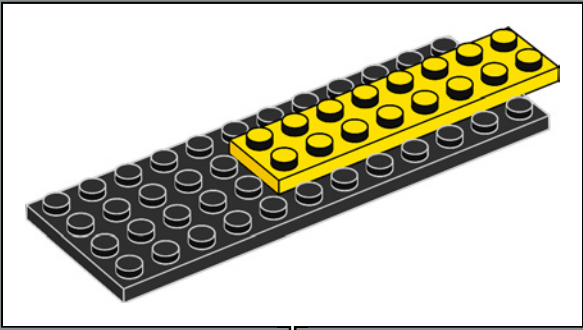


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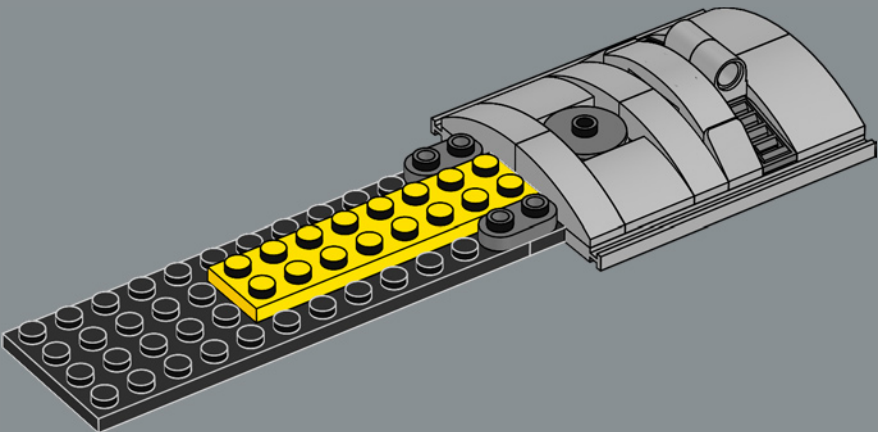


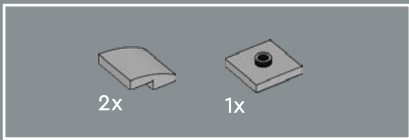


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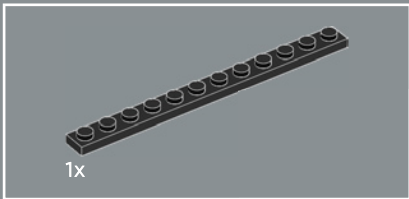
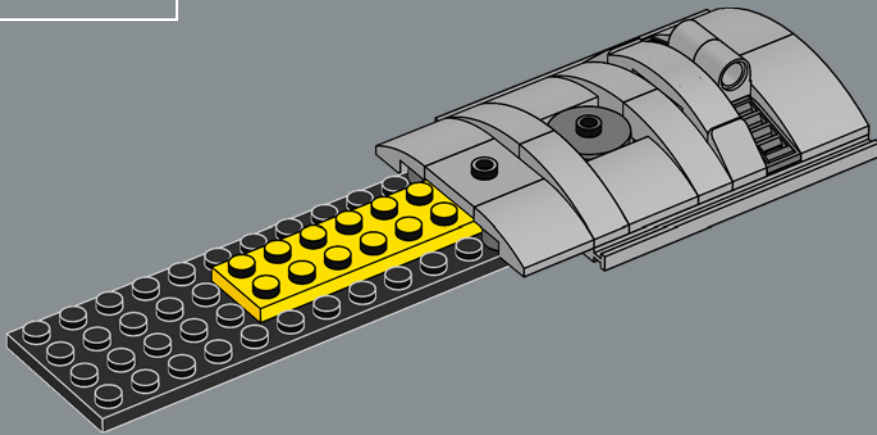


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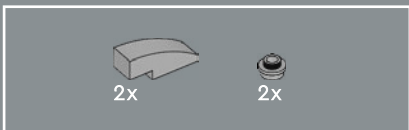
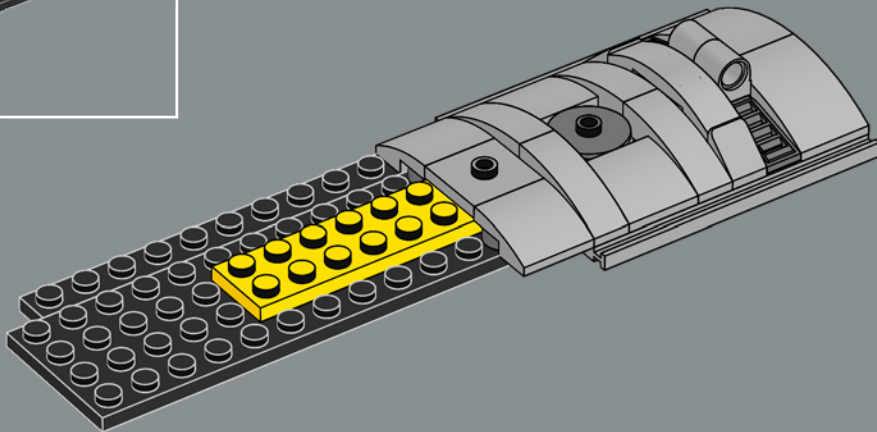




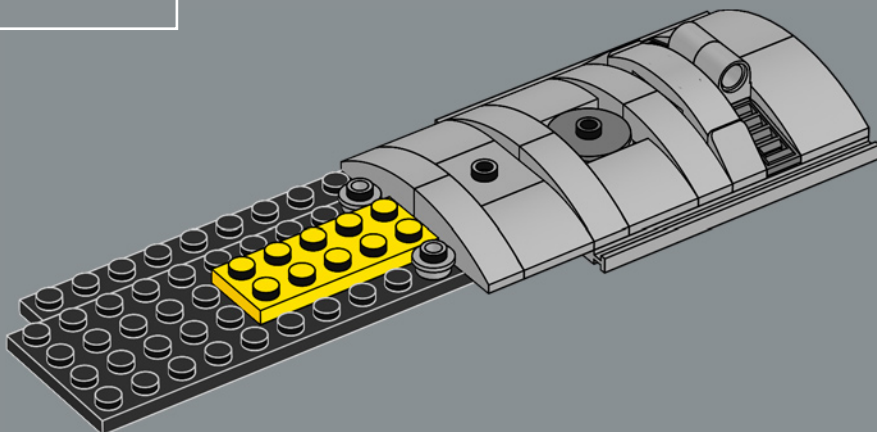
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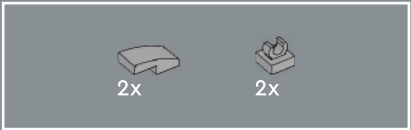


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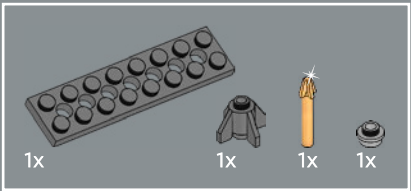
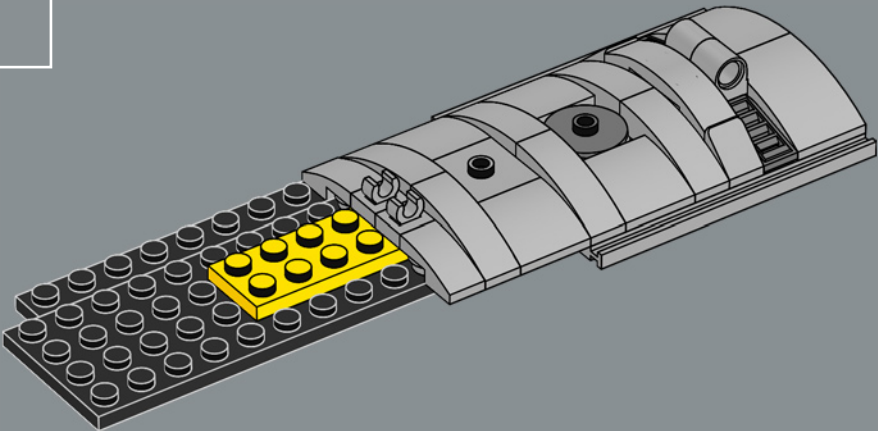


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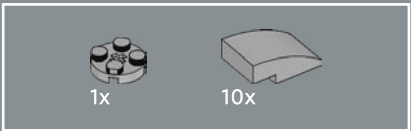
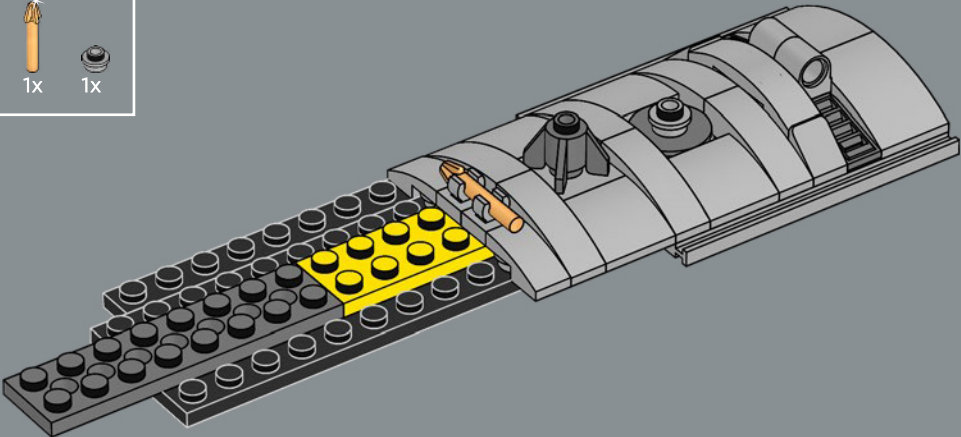




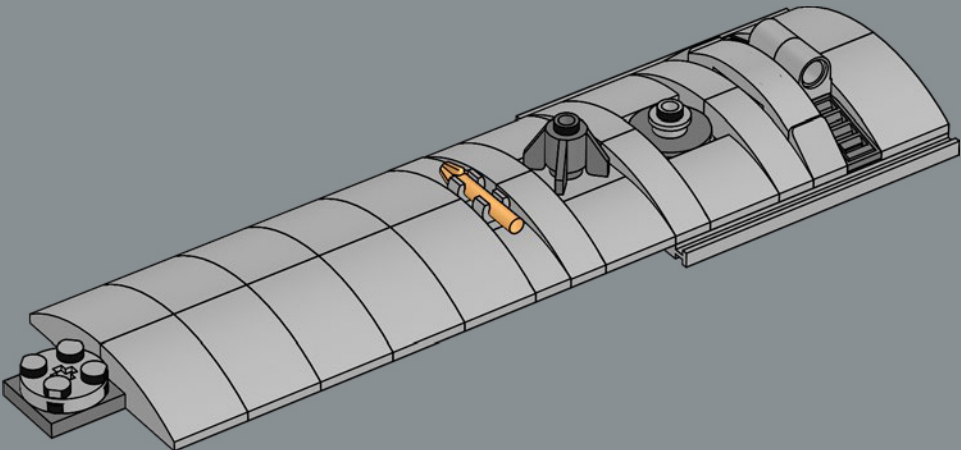
250



251

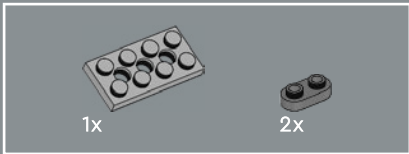
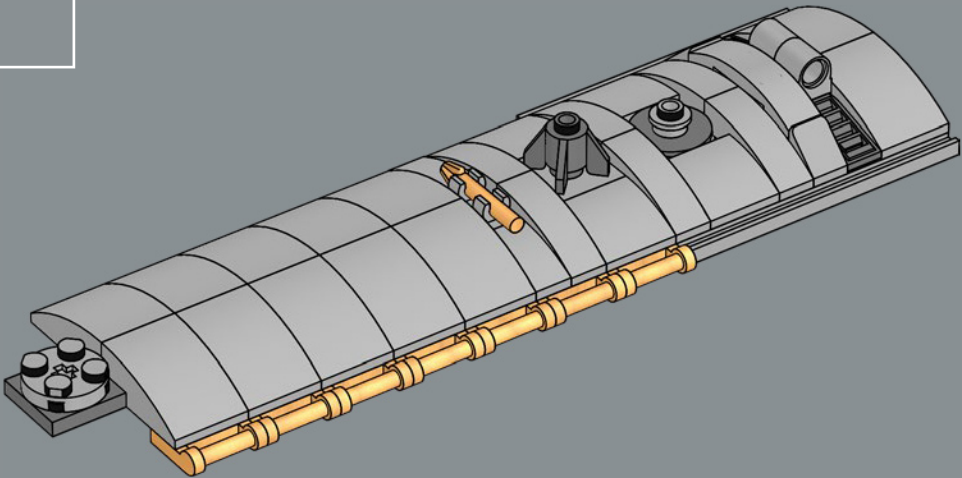


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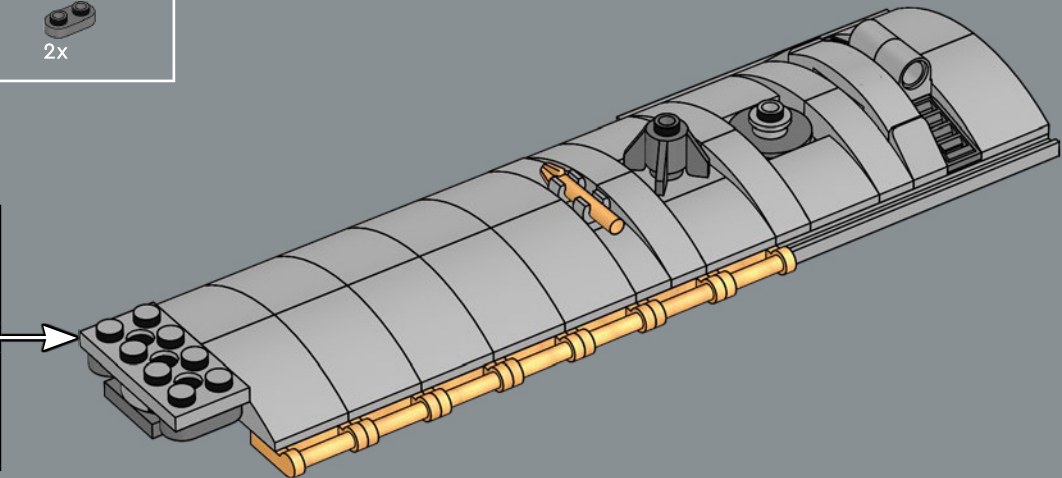
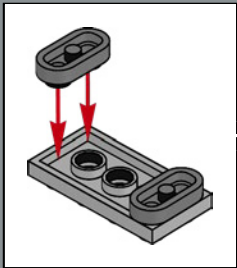




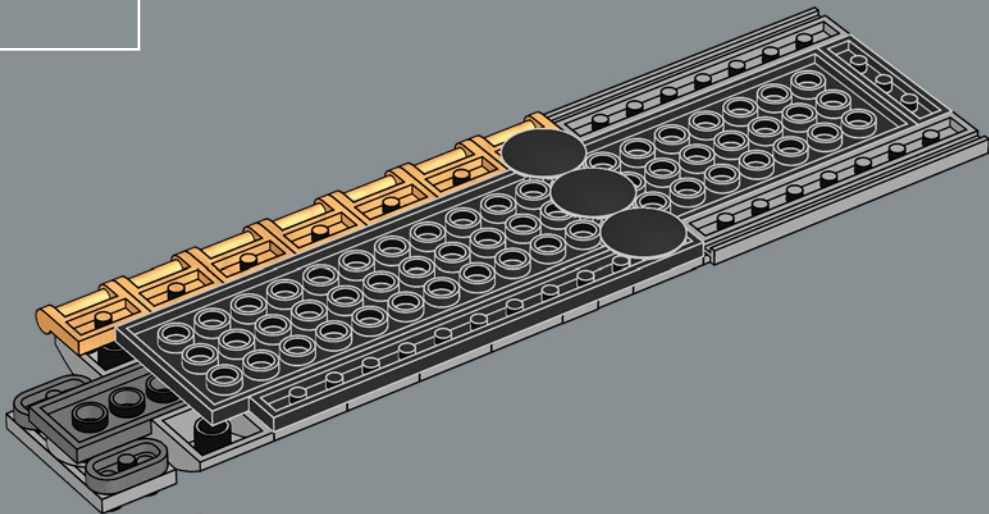
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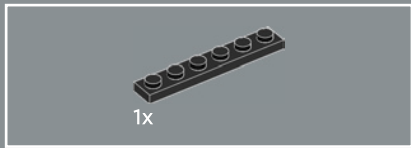


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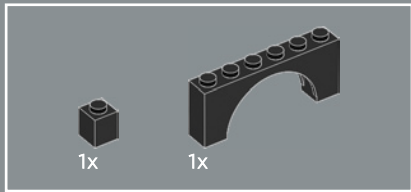
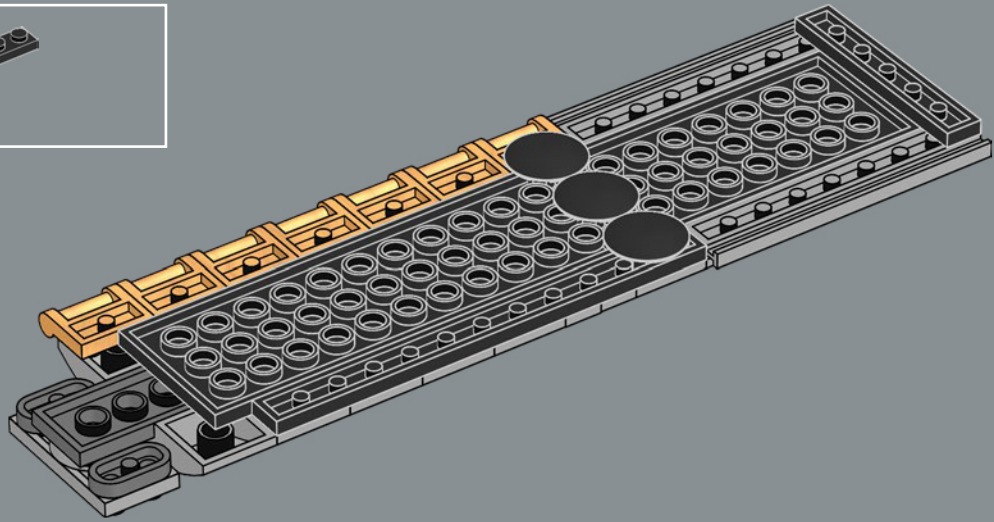


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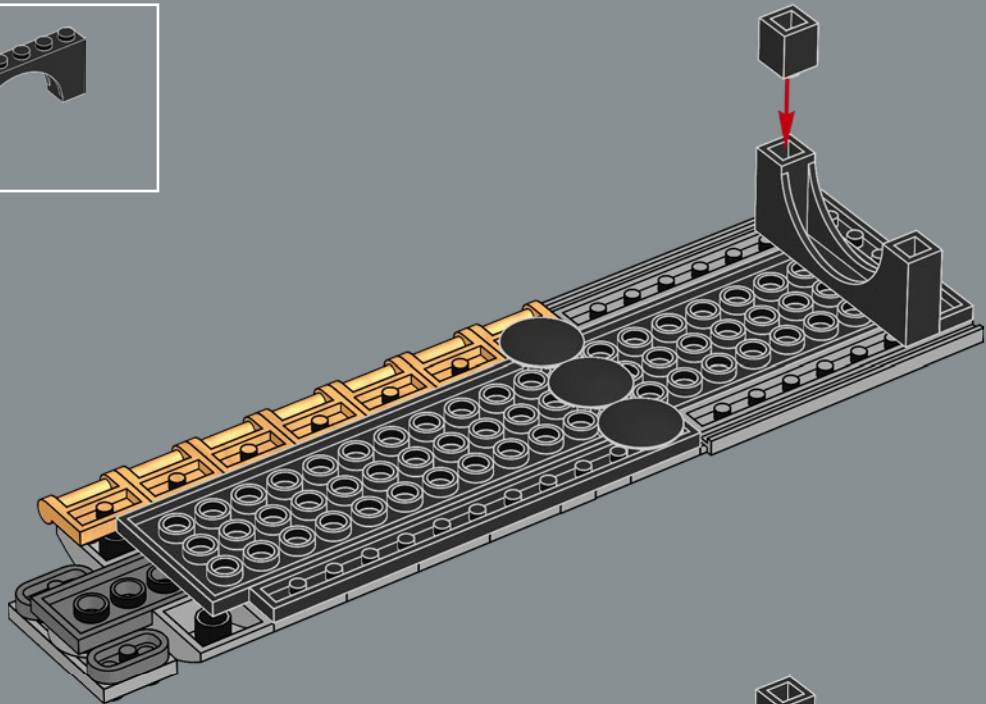




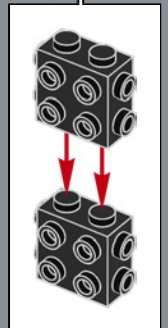
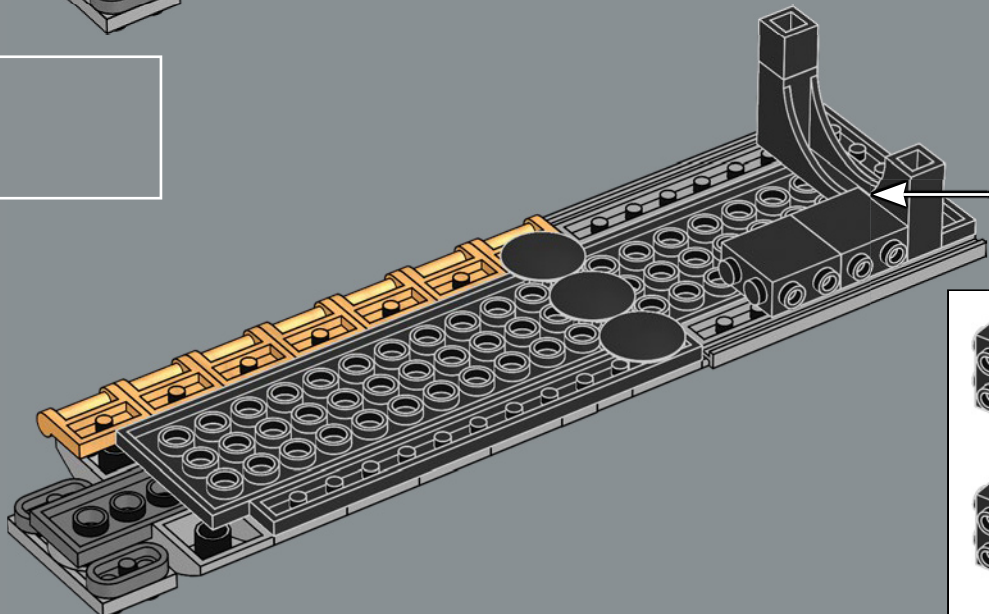
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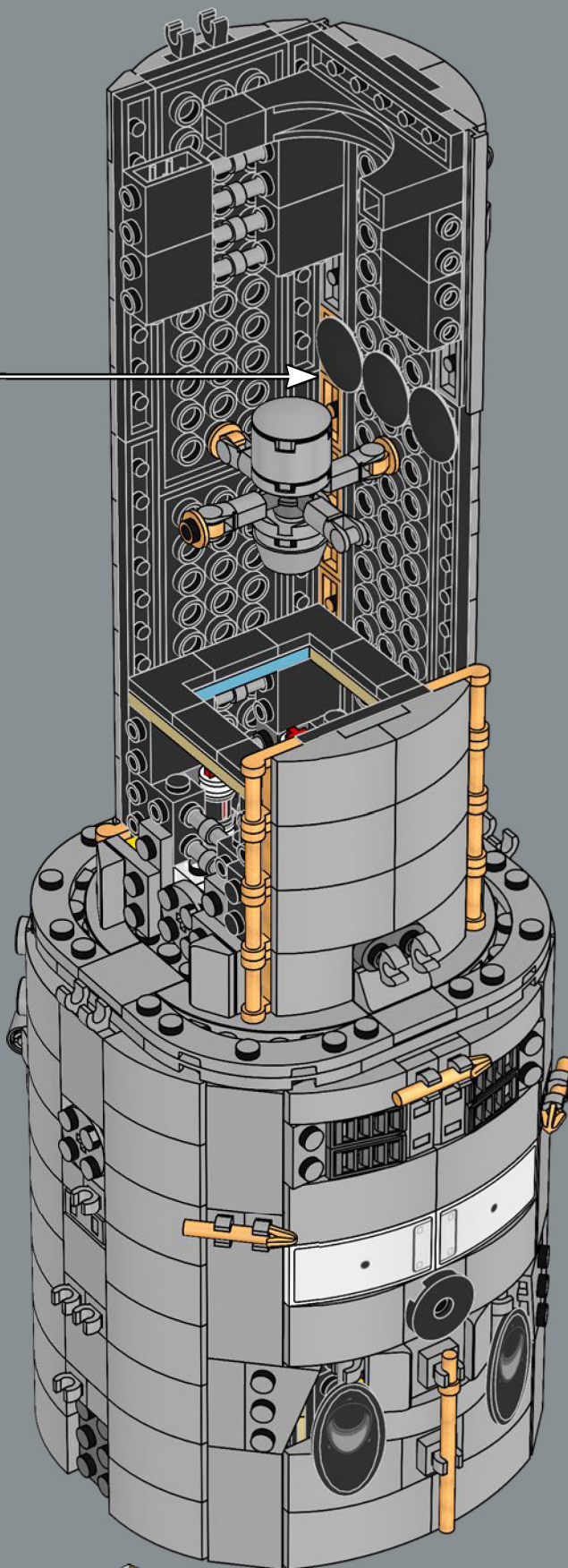
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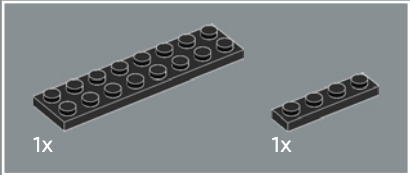
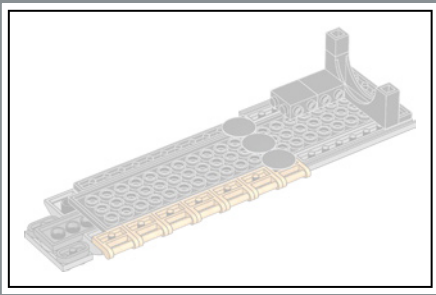


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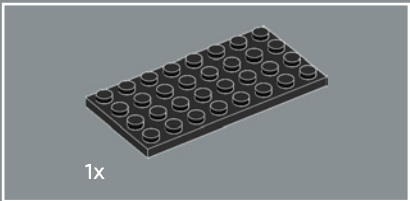
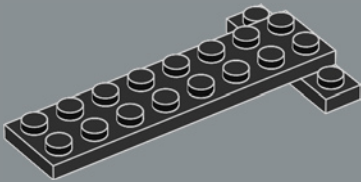


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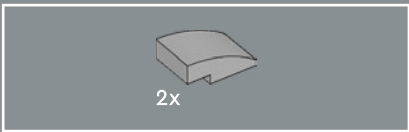
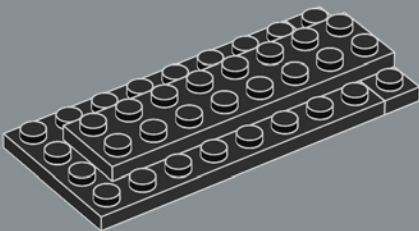




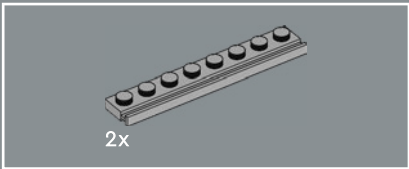
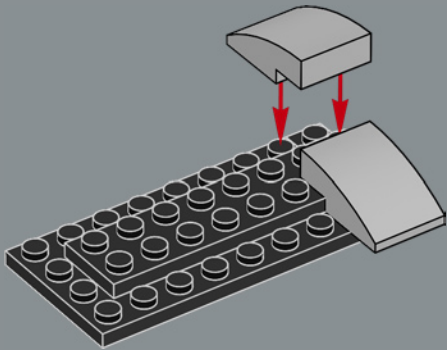
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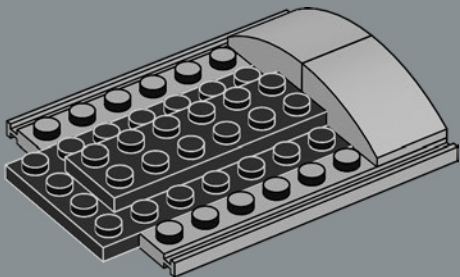
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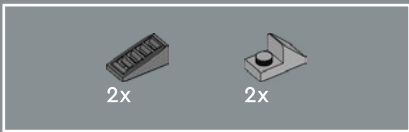


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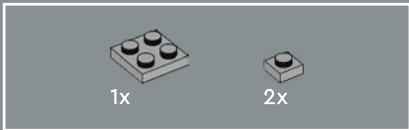
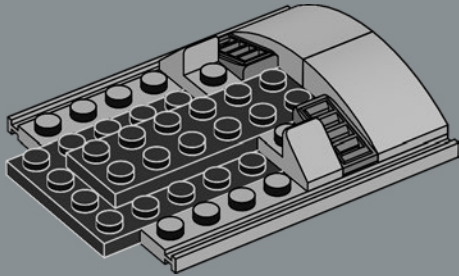


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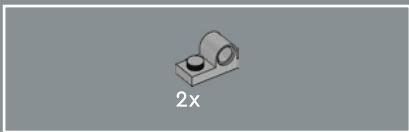
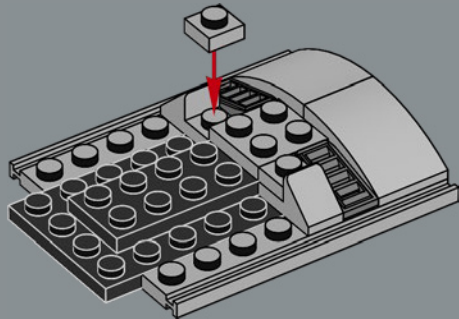




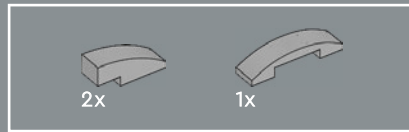
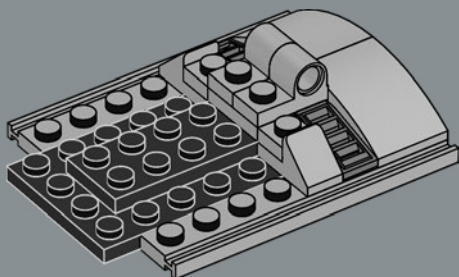
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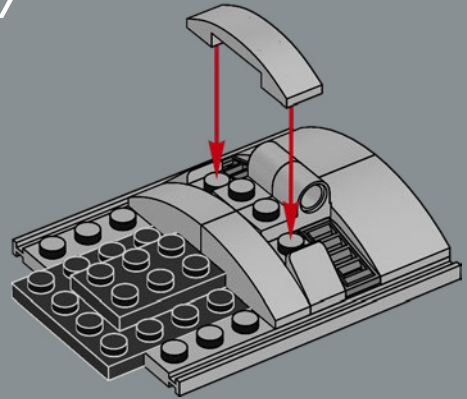
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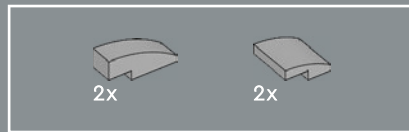
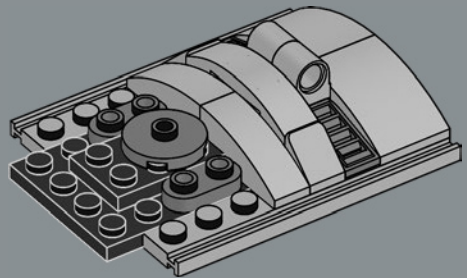
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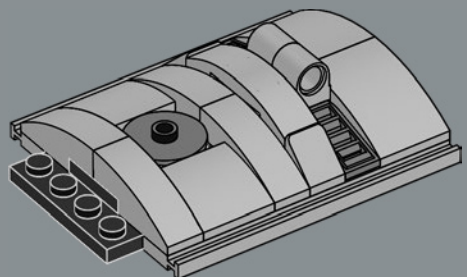
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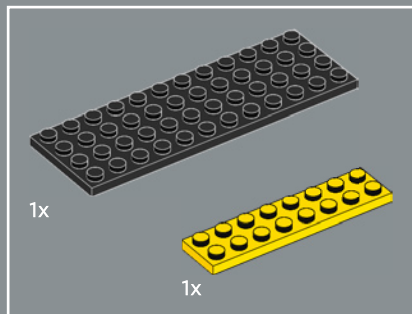


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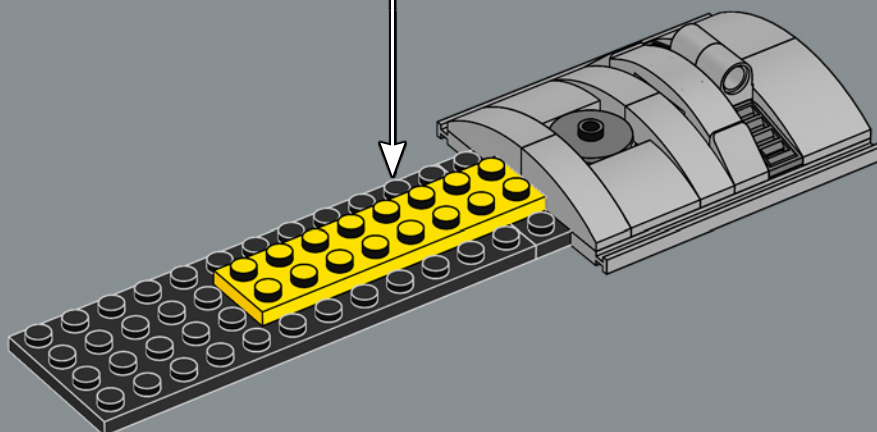
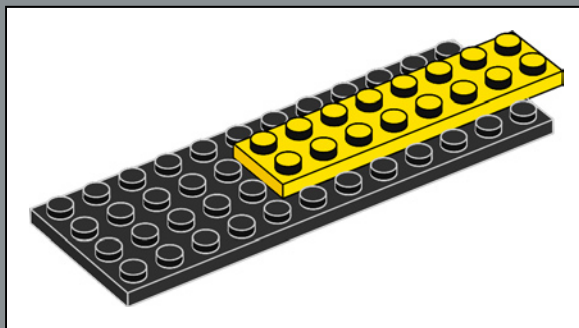


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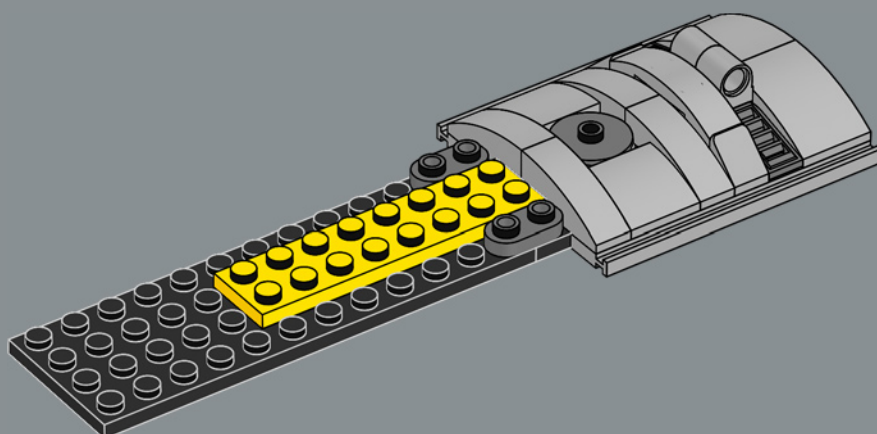


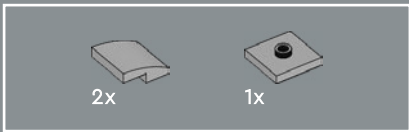


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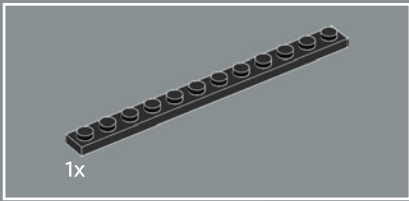
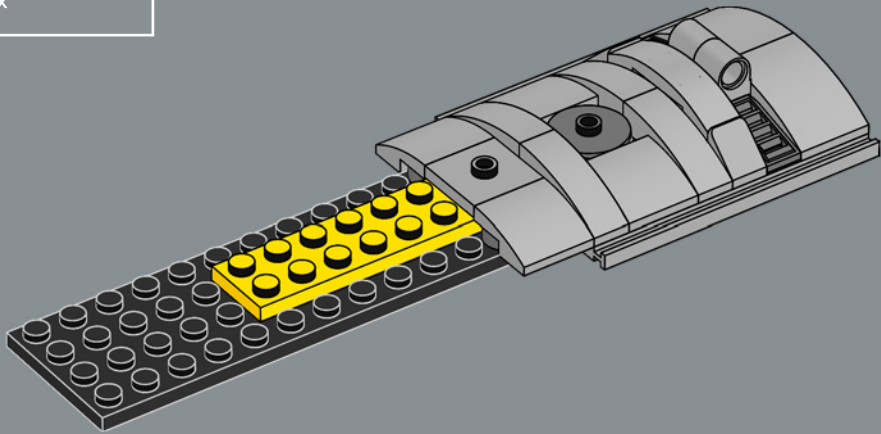


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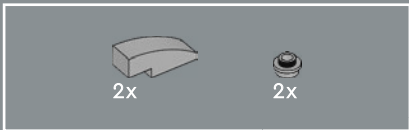
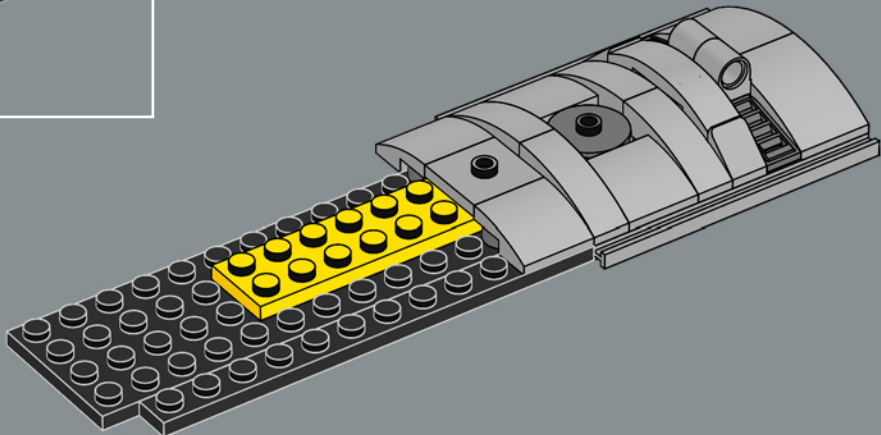




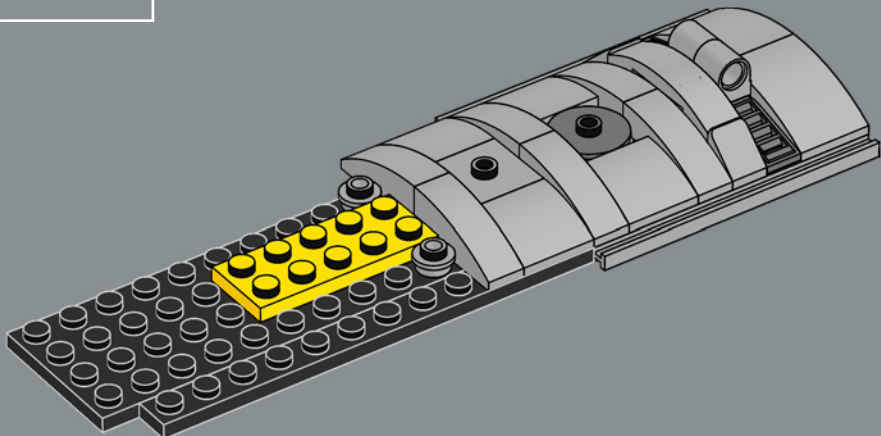
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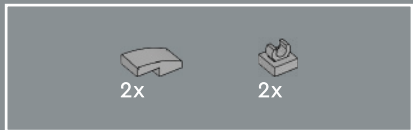


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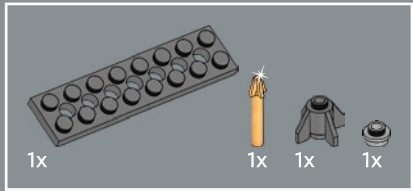
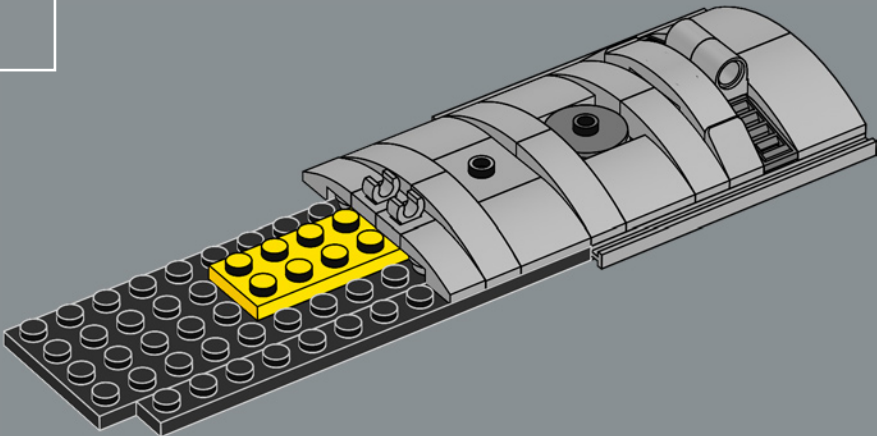


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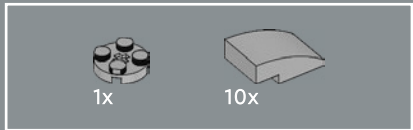
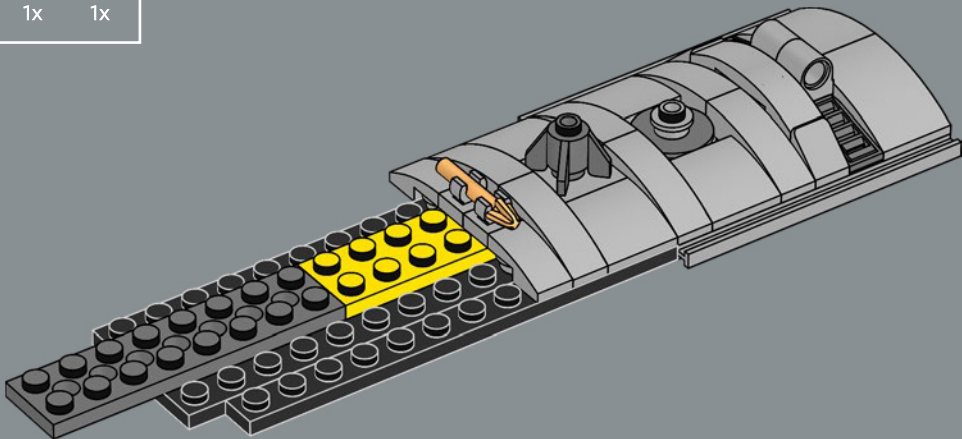




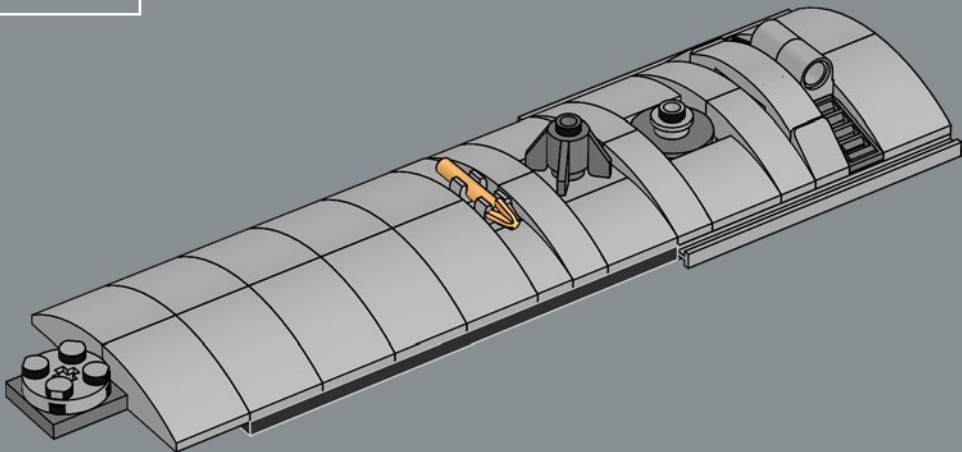
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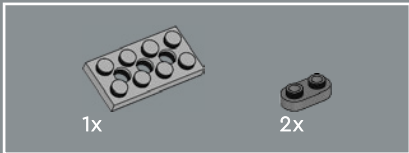
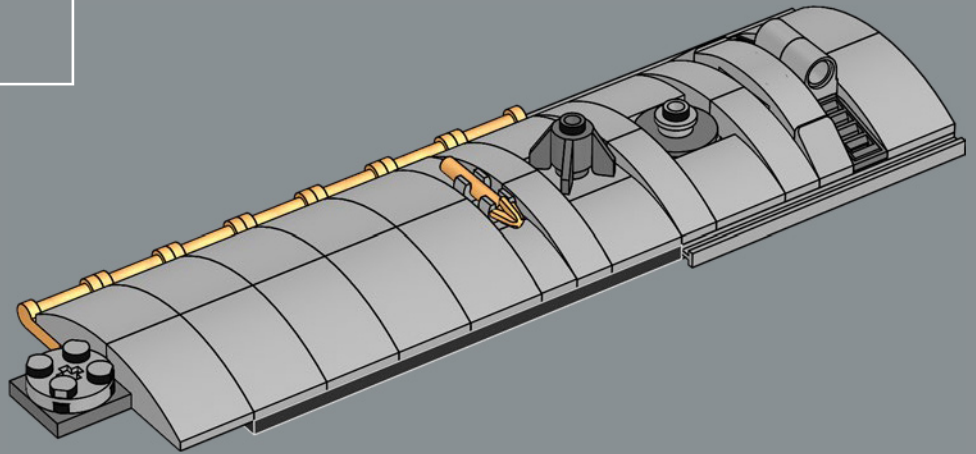


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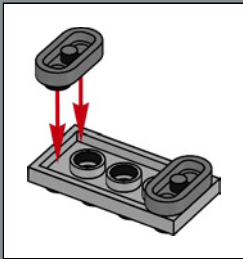
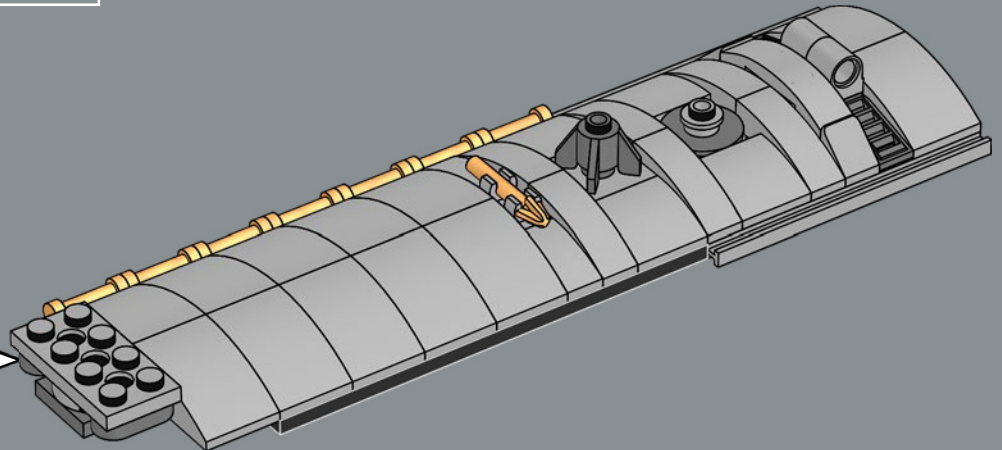




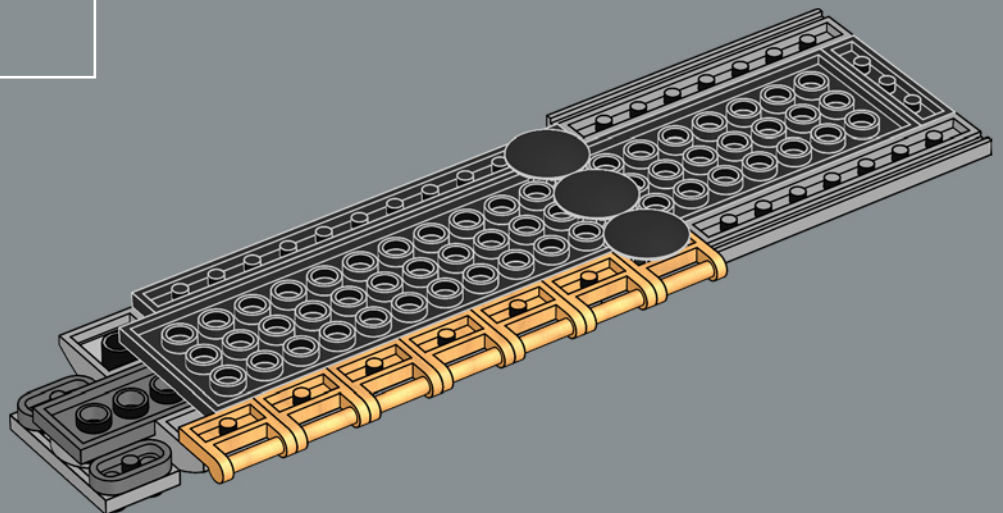
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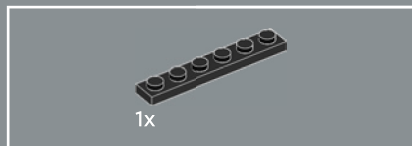


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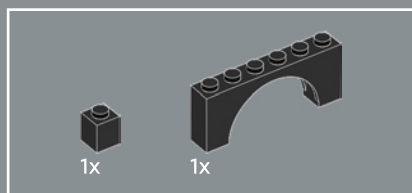
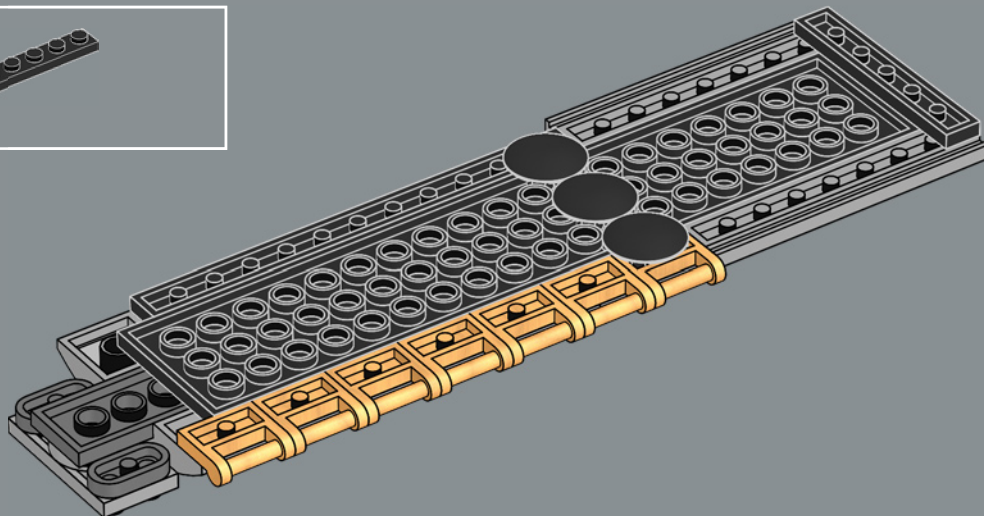
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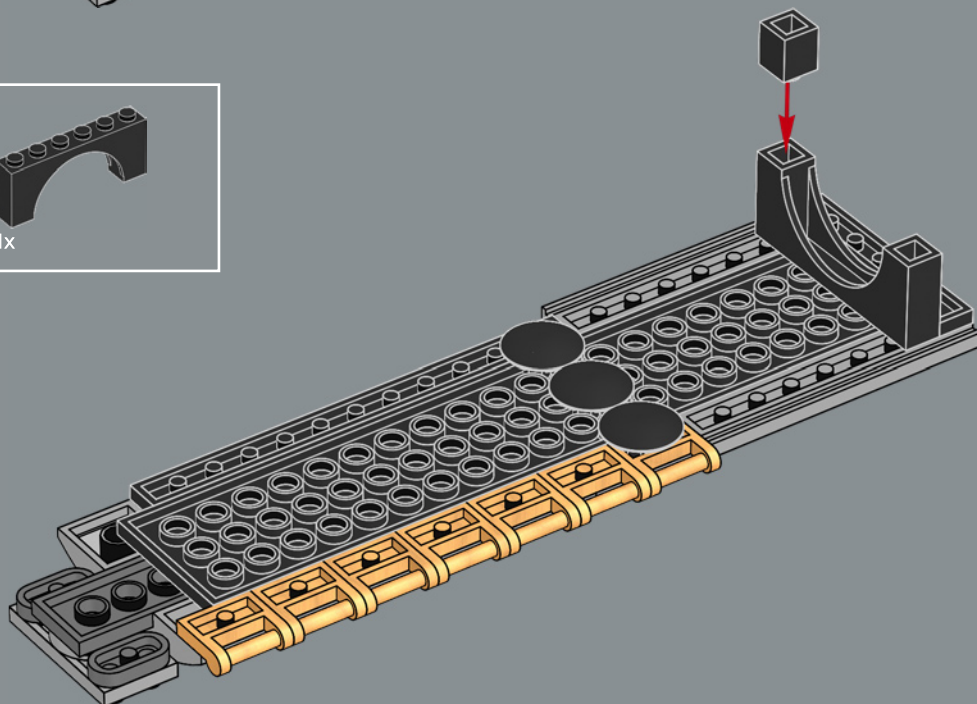
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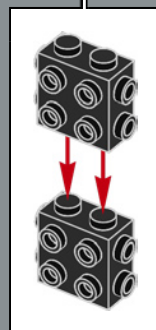
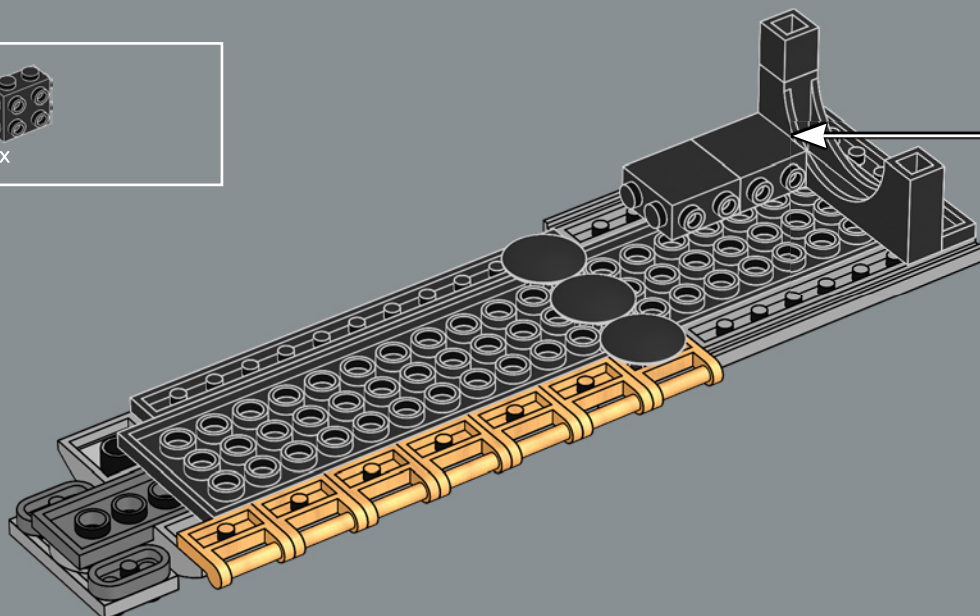
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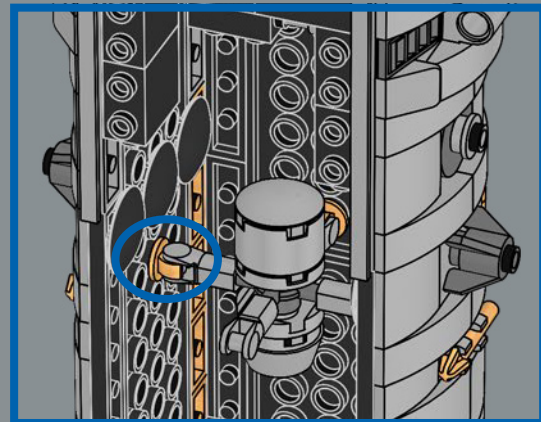
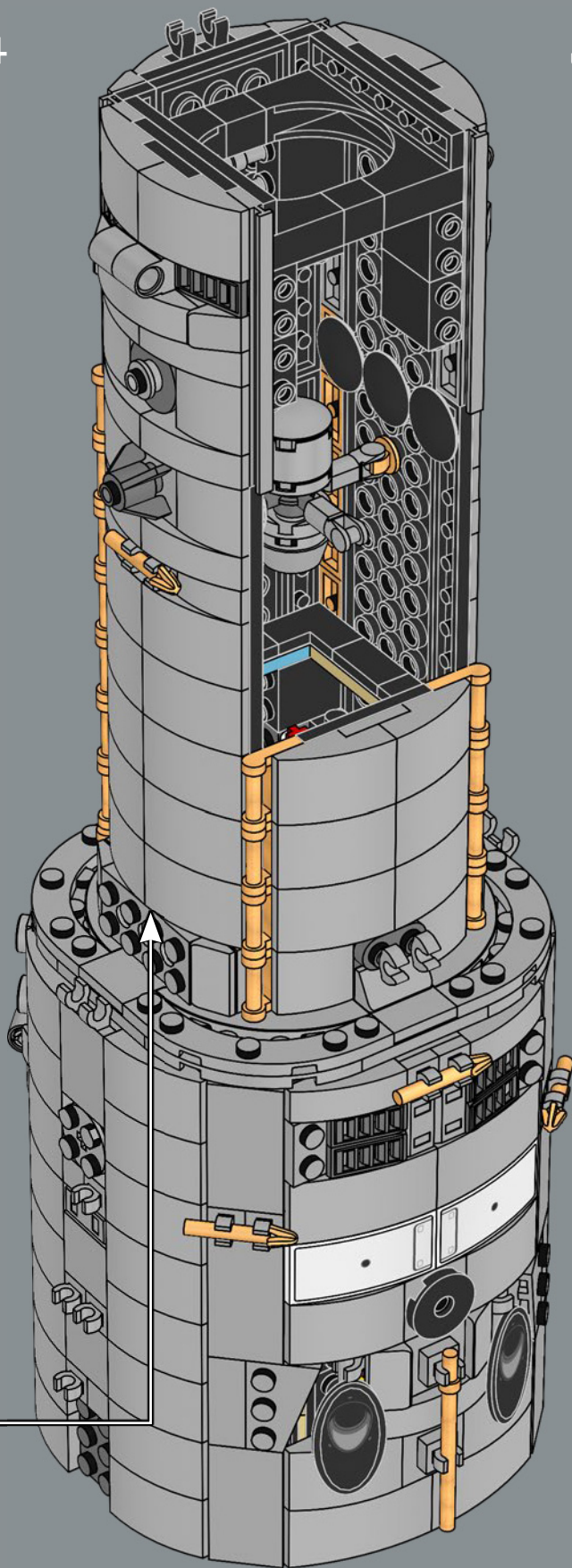
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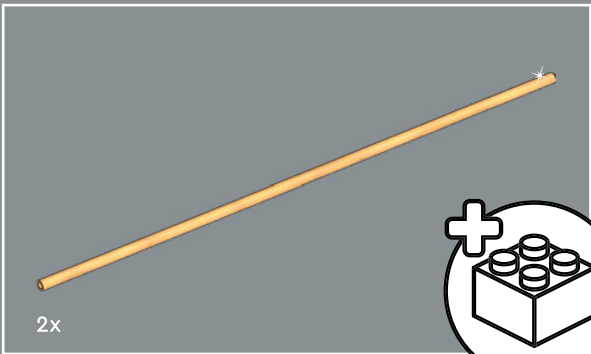


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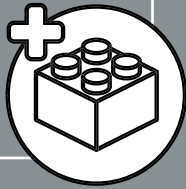
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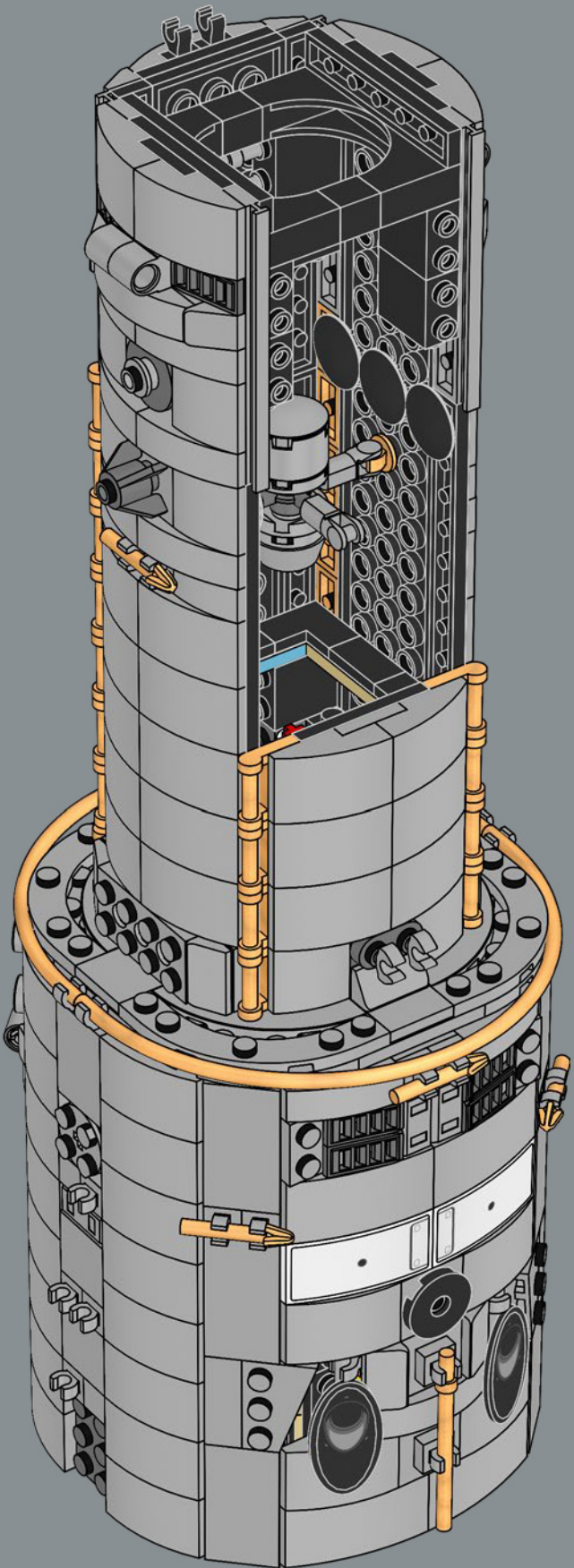


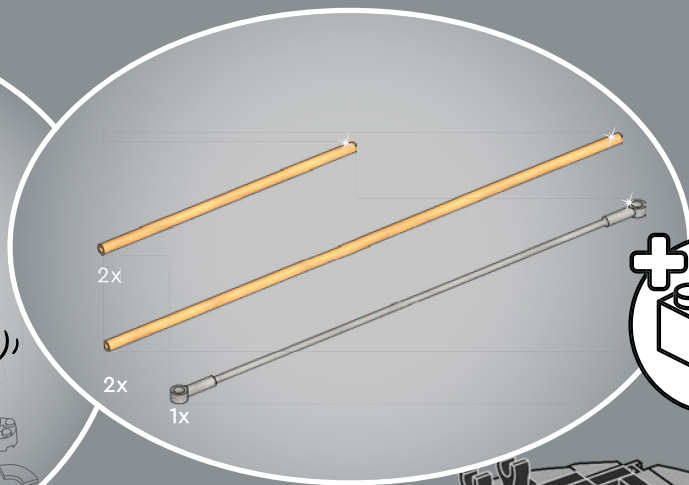


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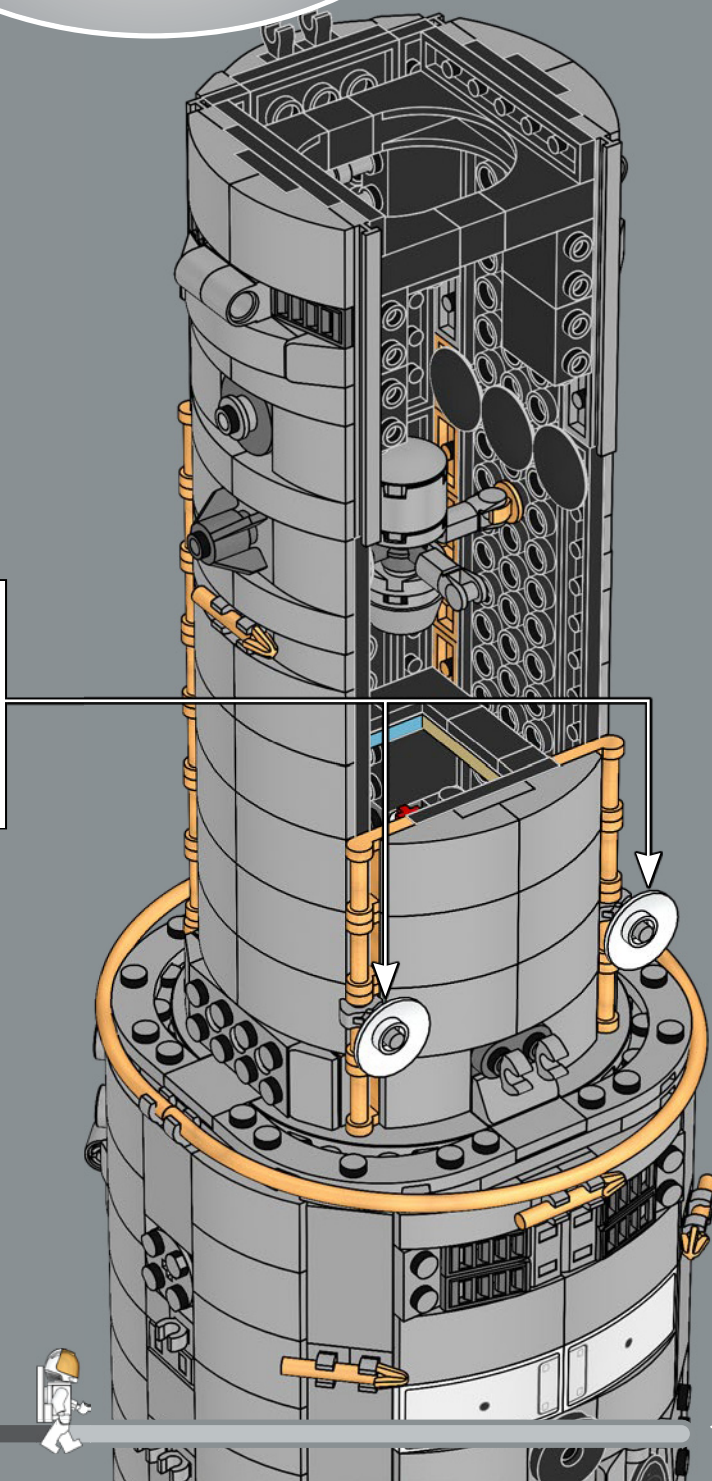
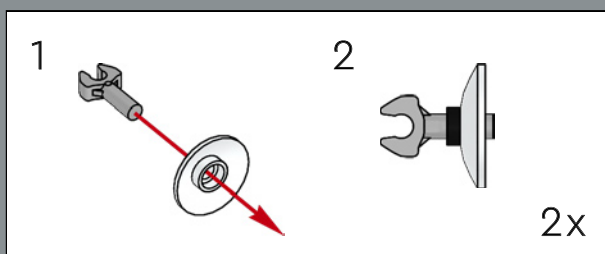


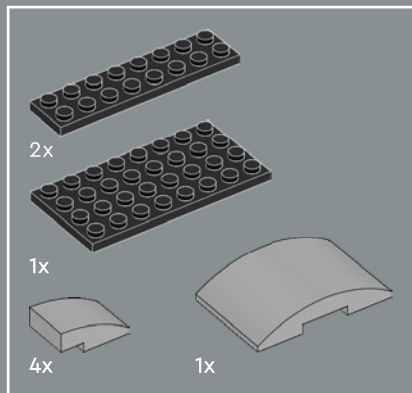
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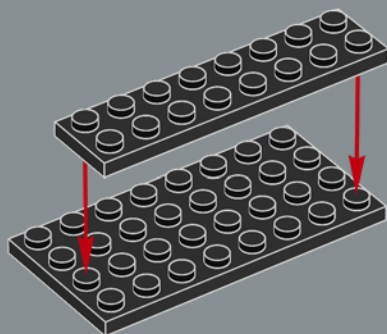
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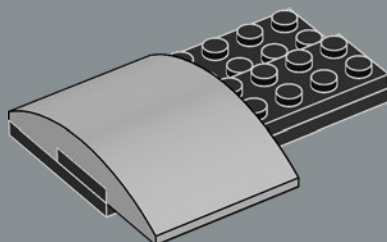


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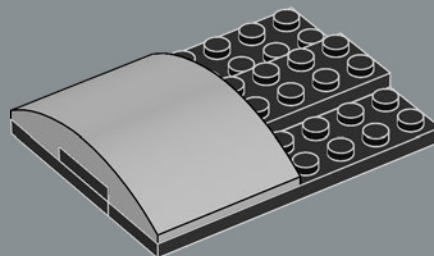
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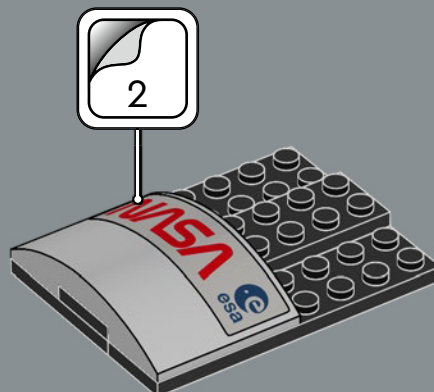
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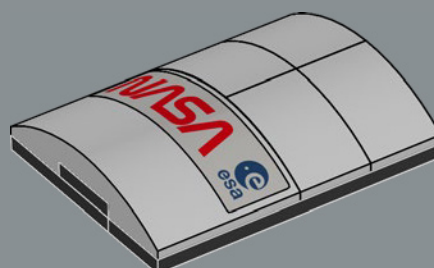
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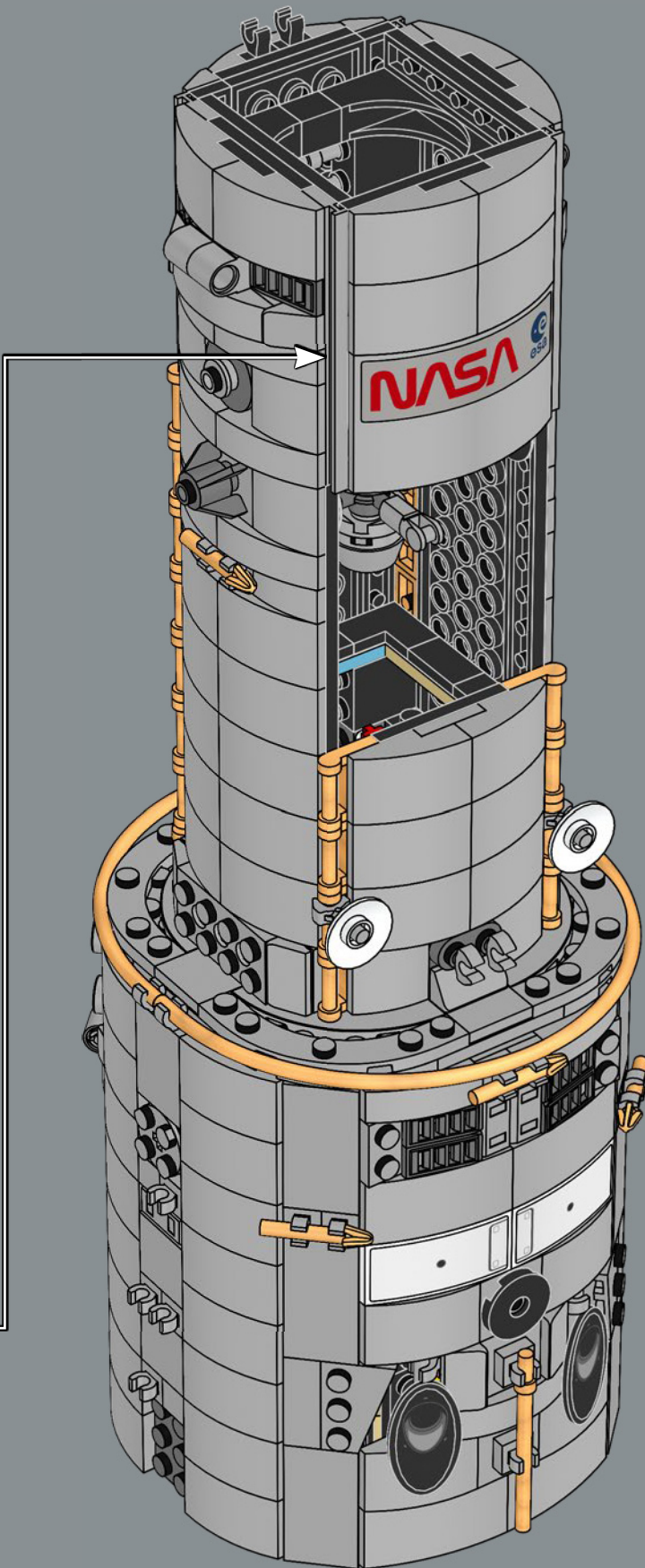
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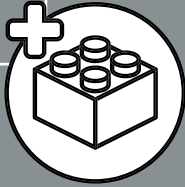
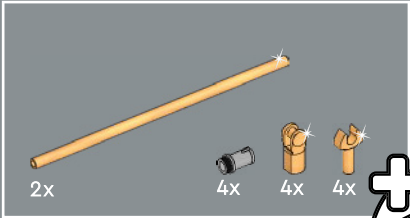
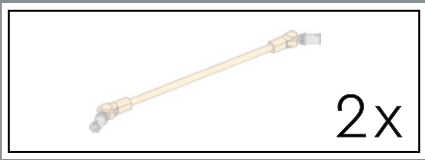


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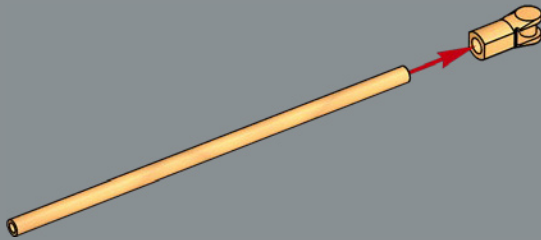
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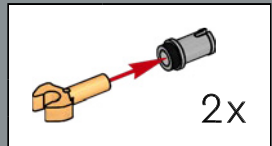
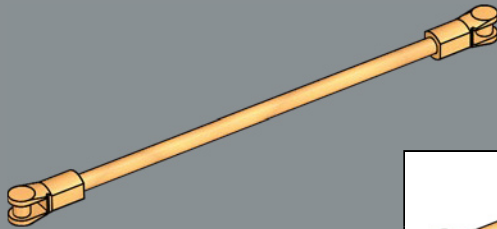


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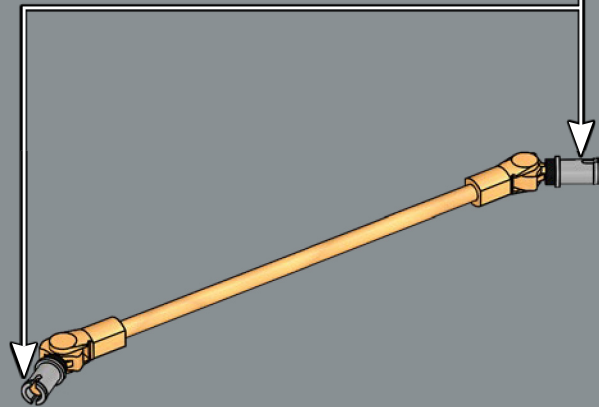
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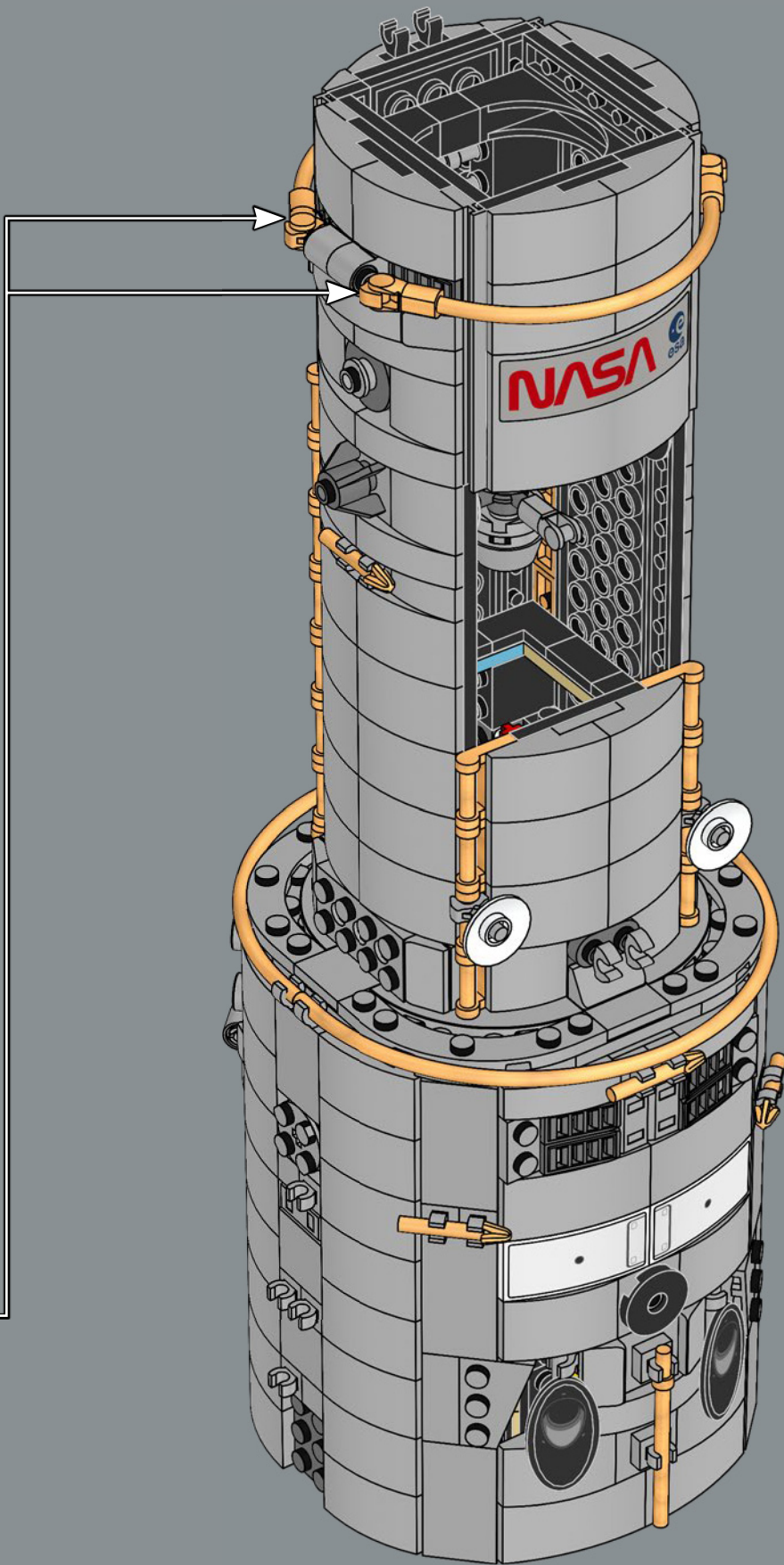
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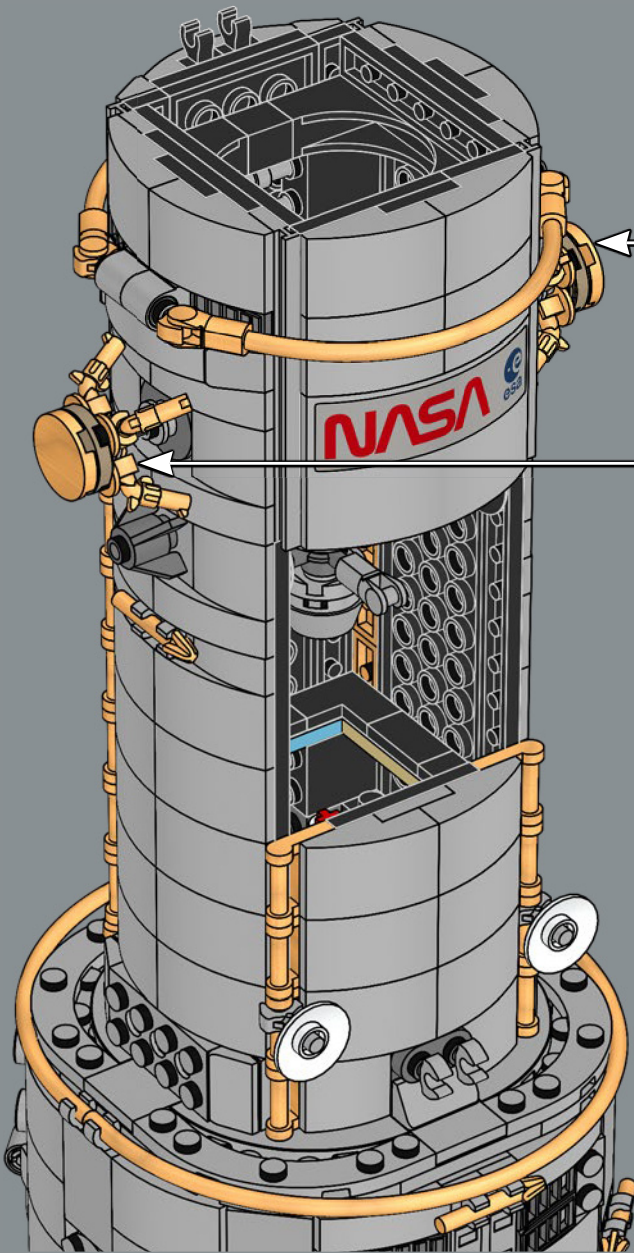
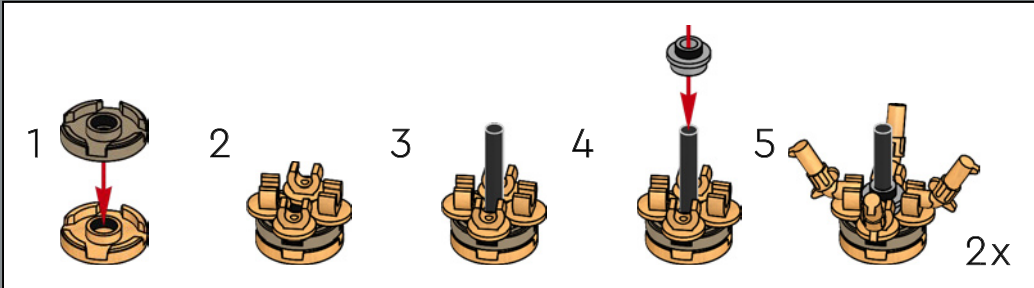


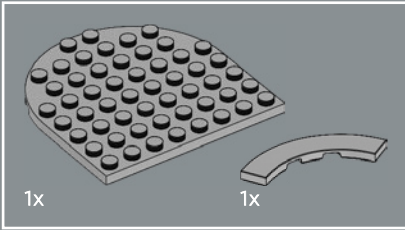
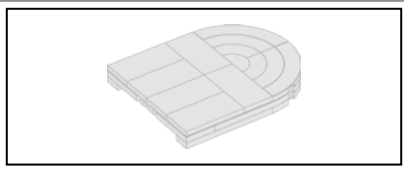
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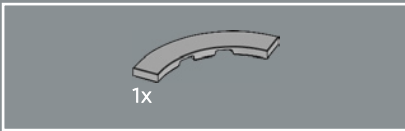
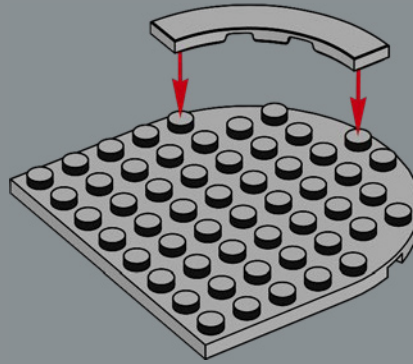


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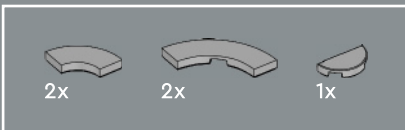
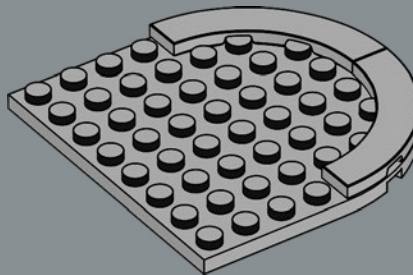




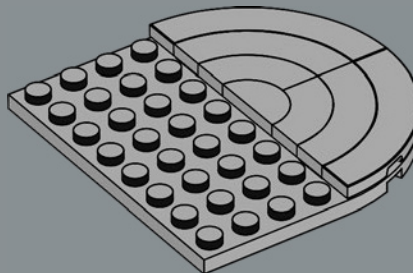
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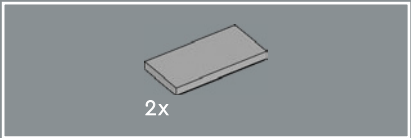


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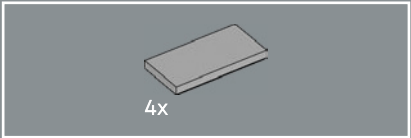
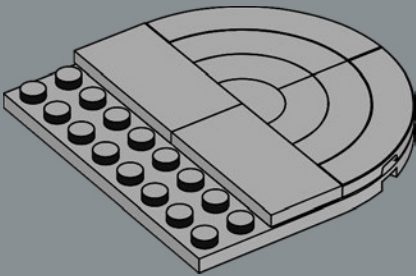


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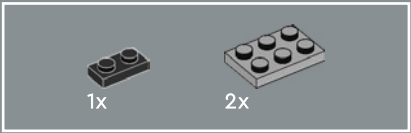
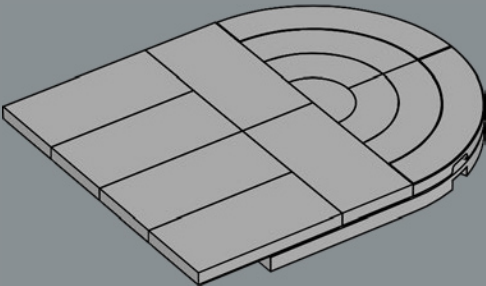




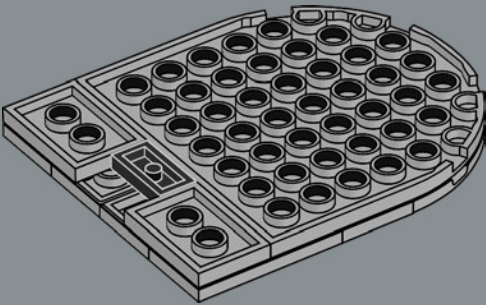
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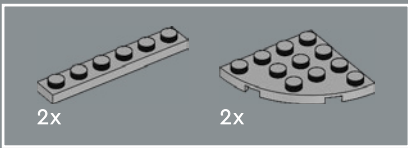


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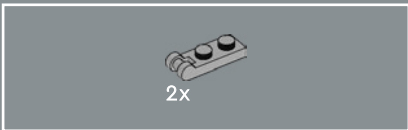
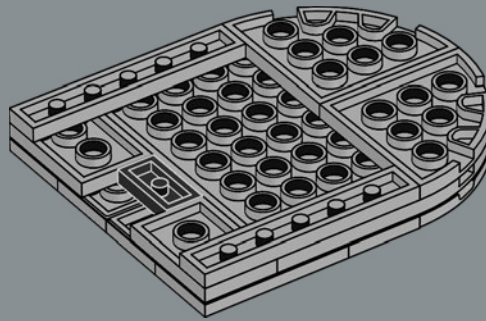


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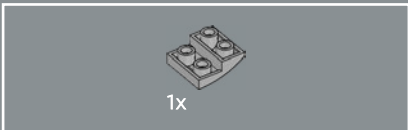
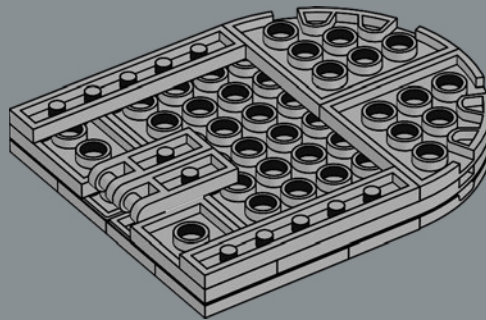




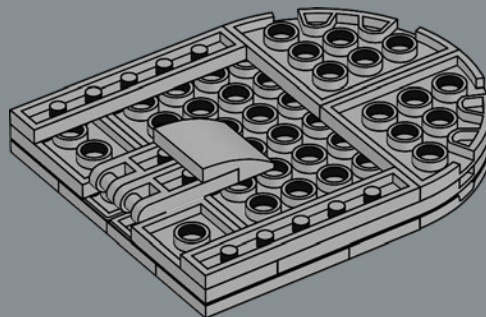
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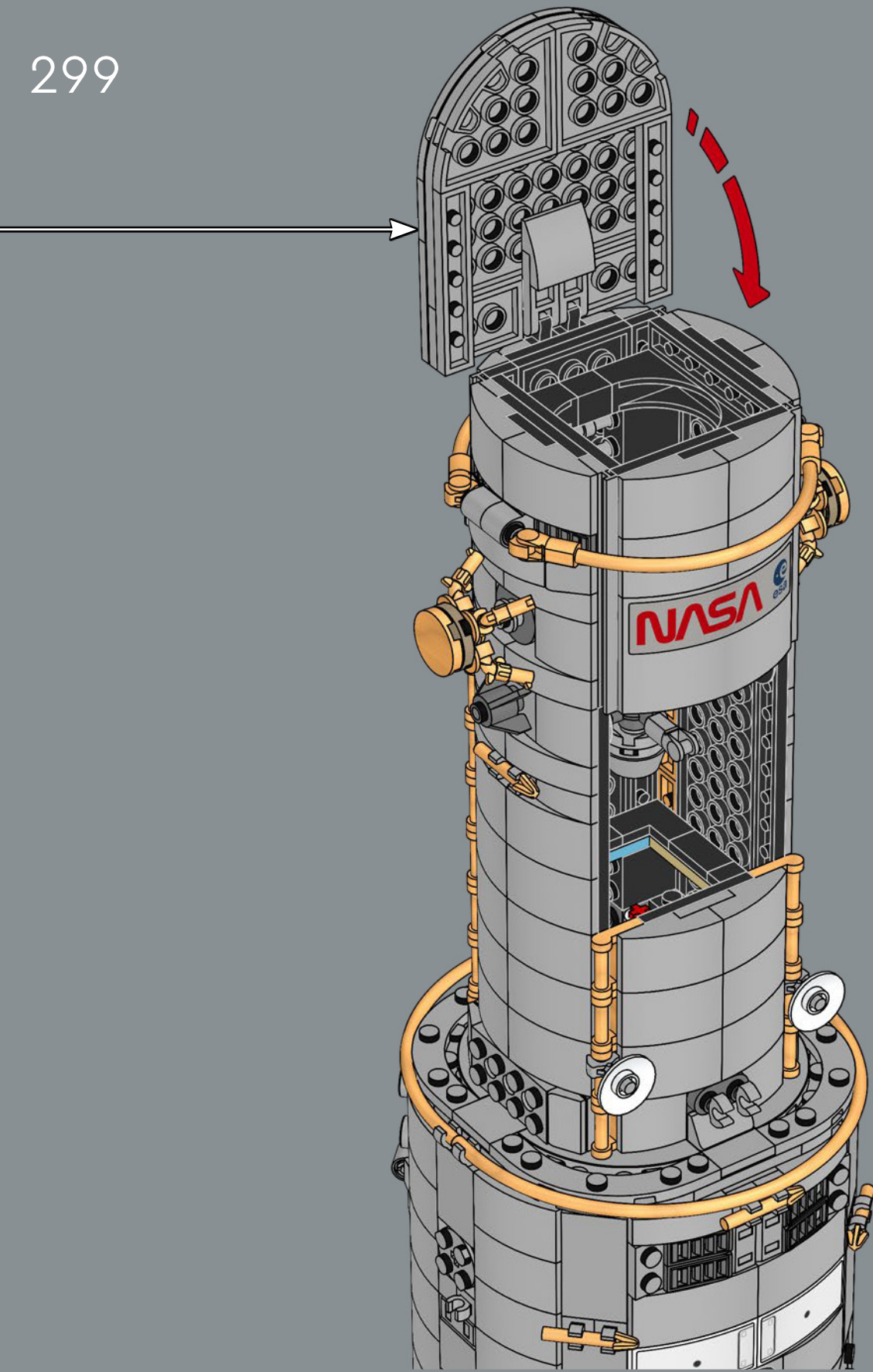


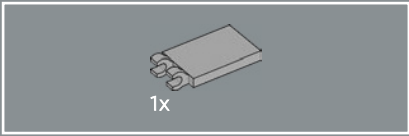
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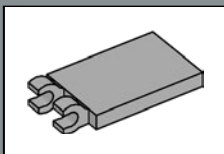
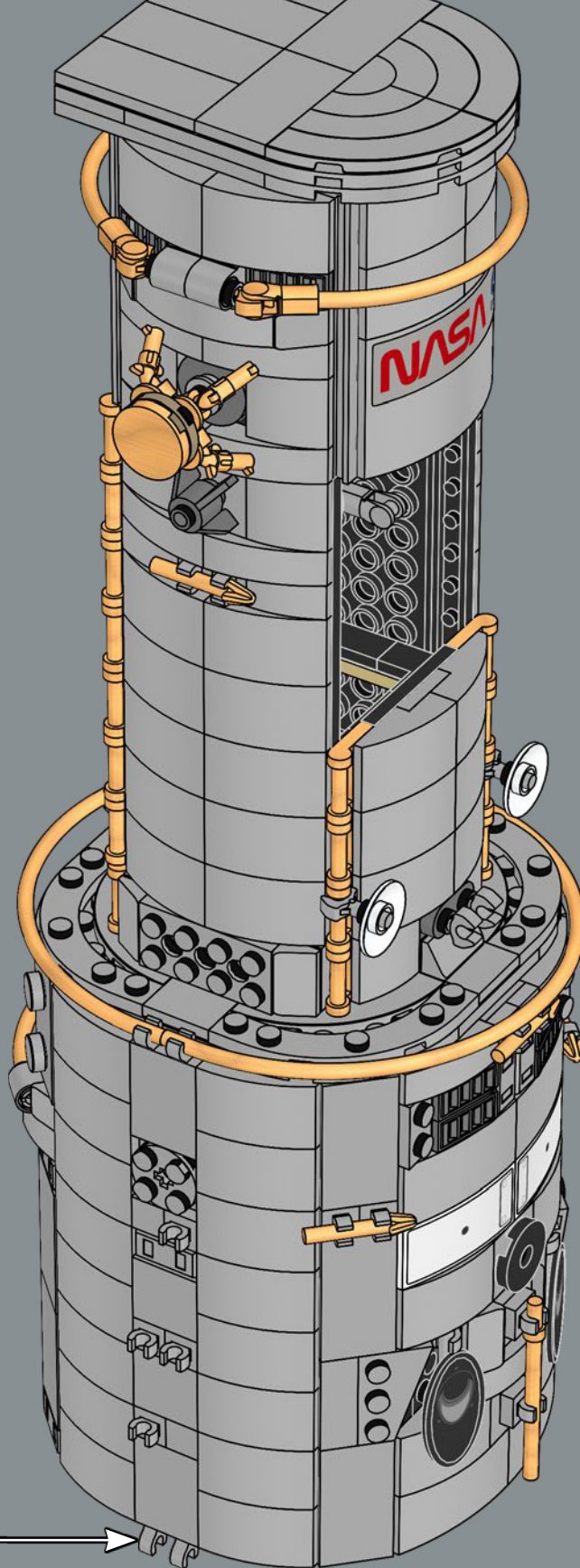
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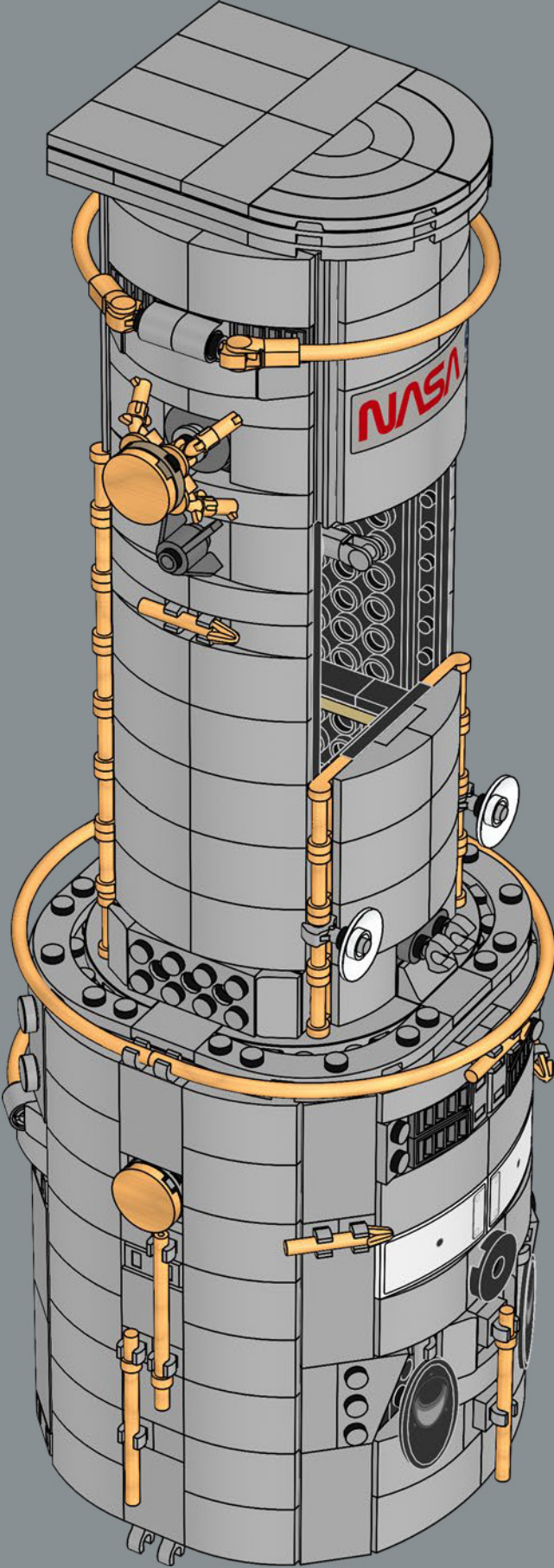


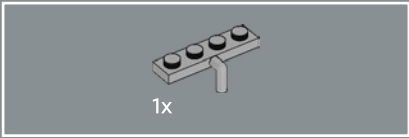
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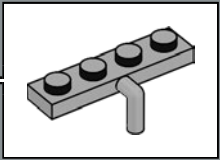
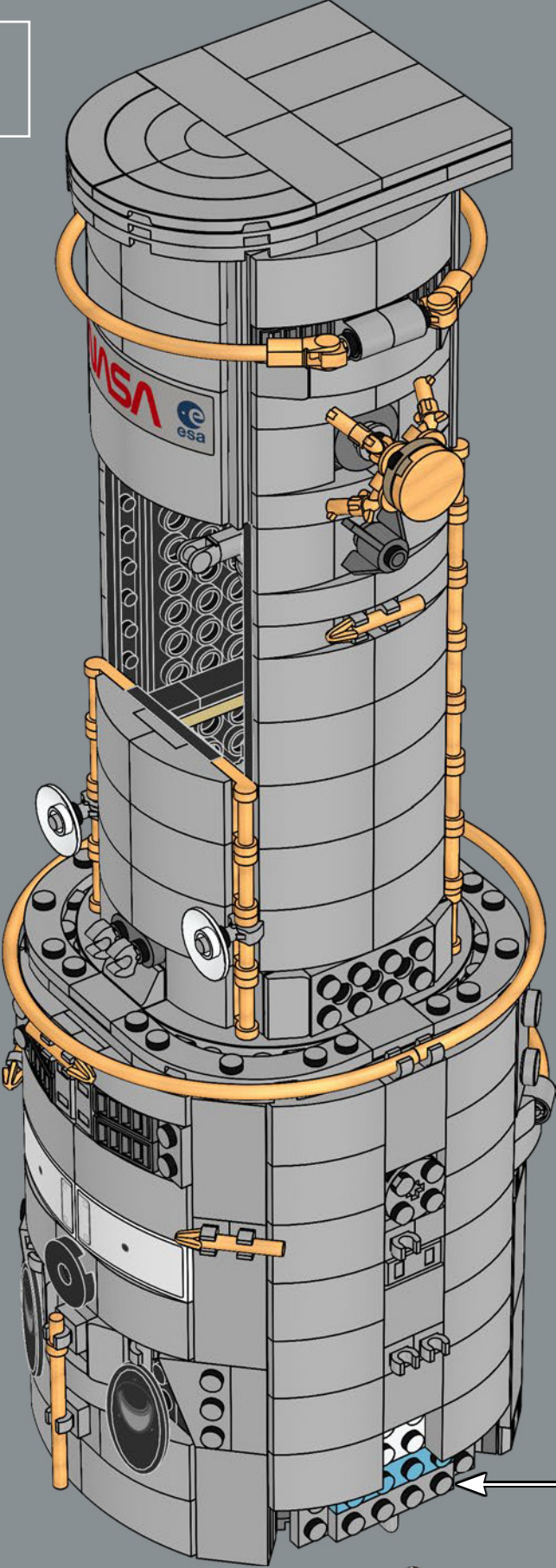


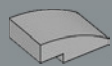
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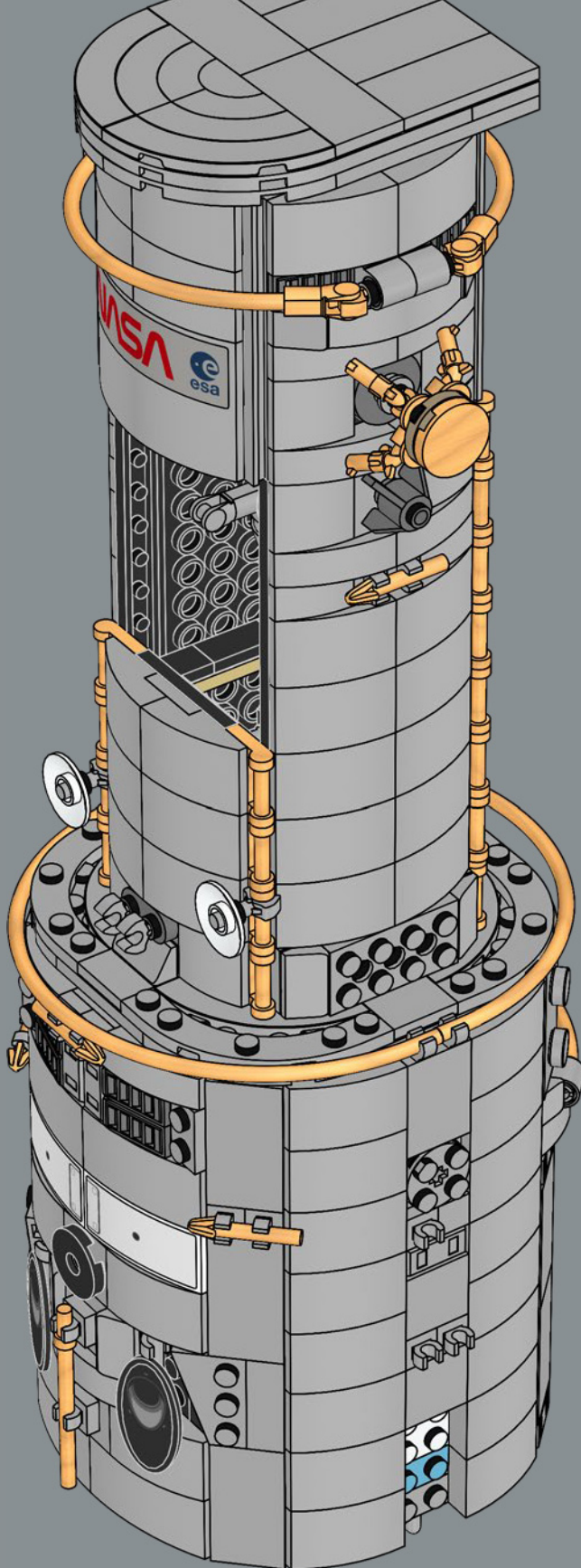
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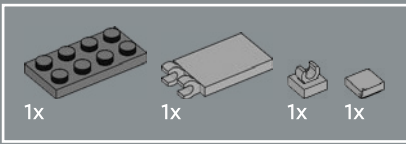




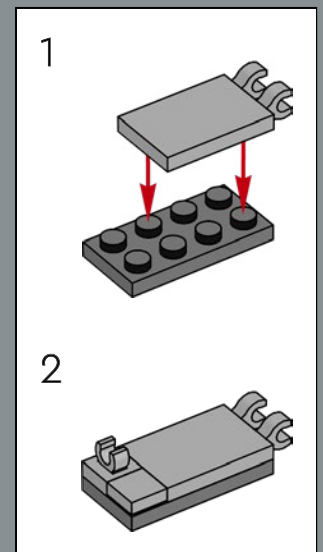
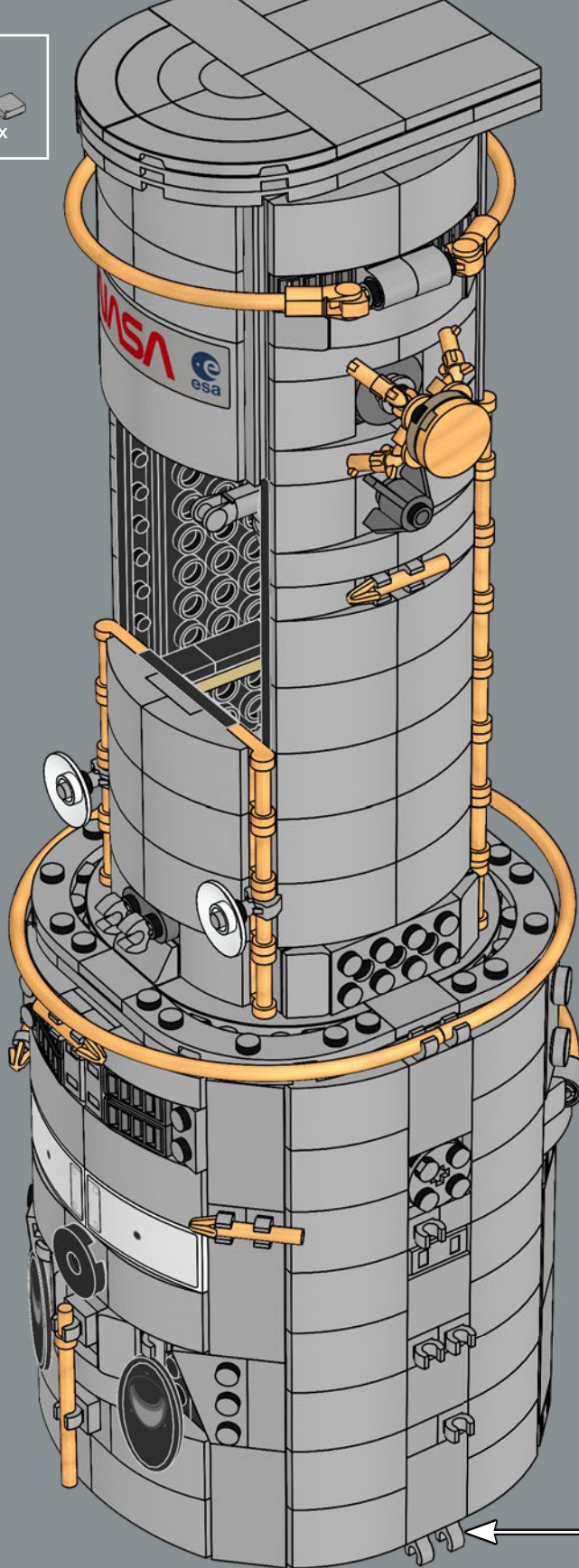
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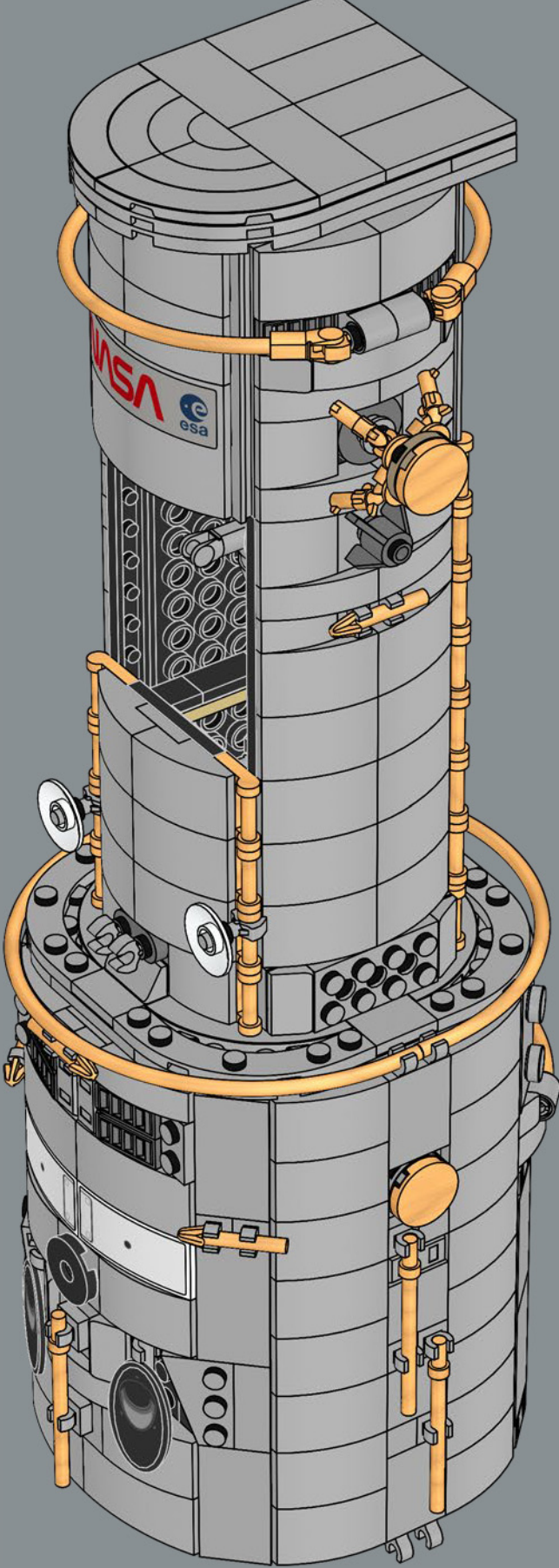


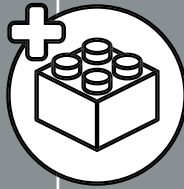
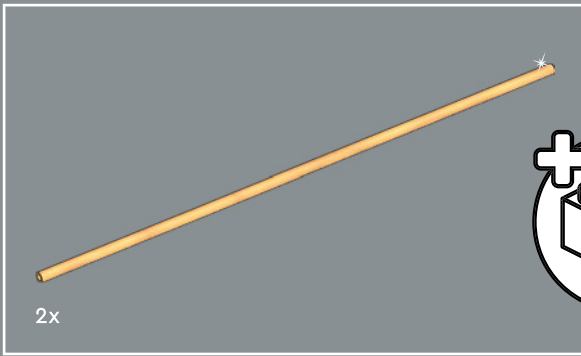
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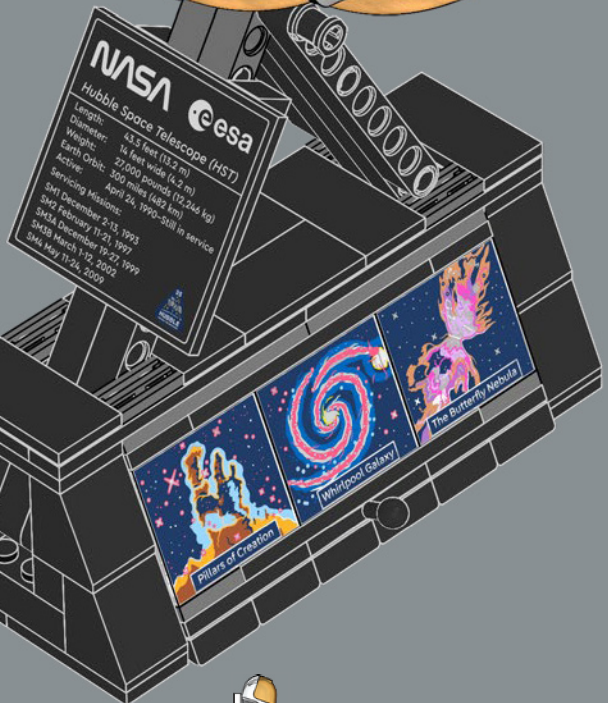
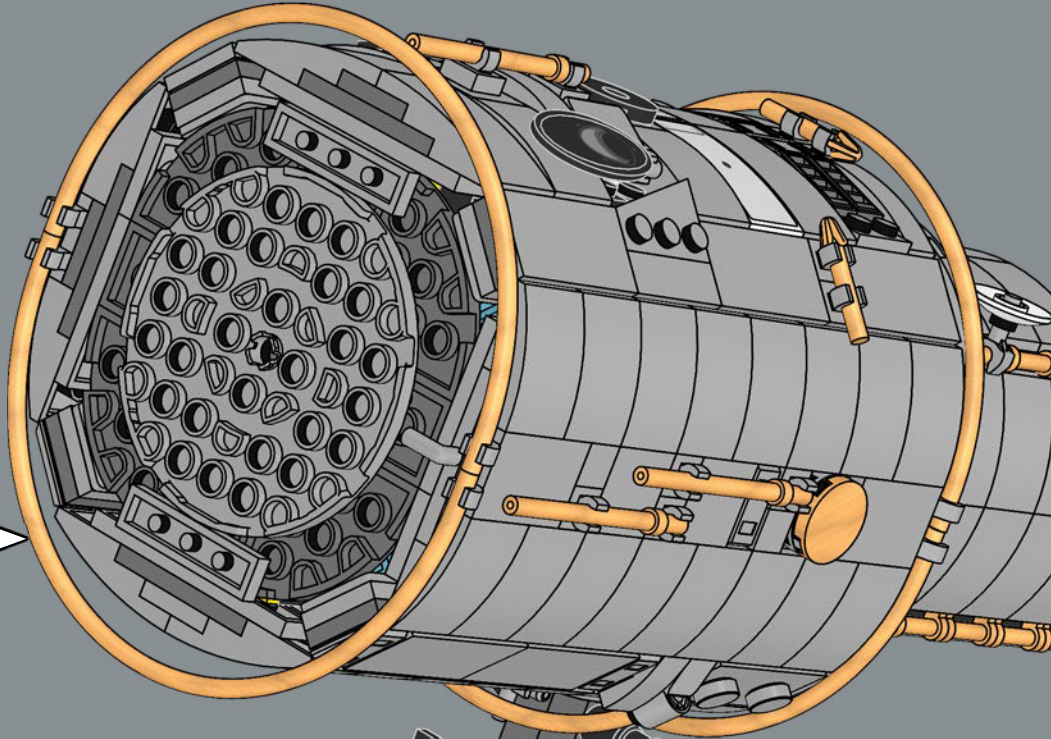


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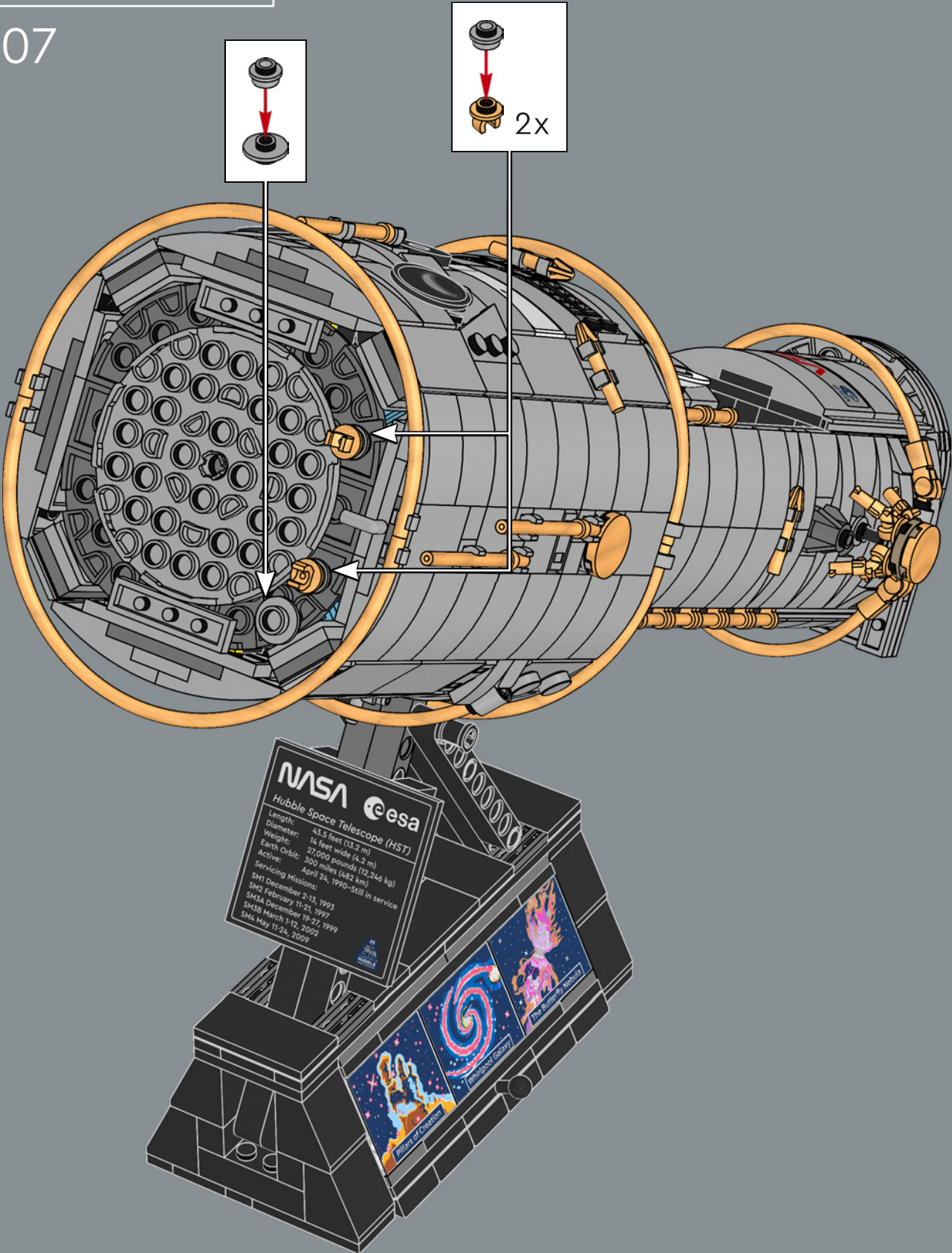


3x

2x

1x

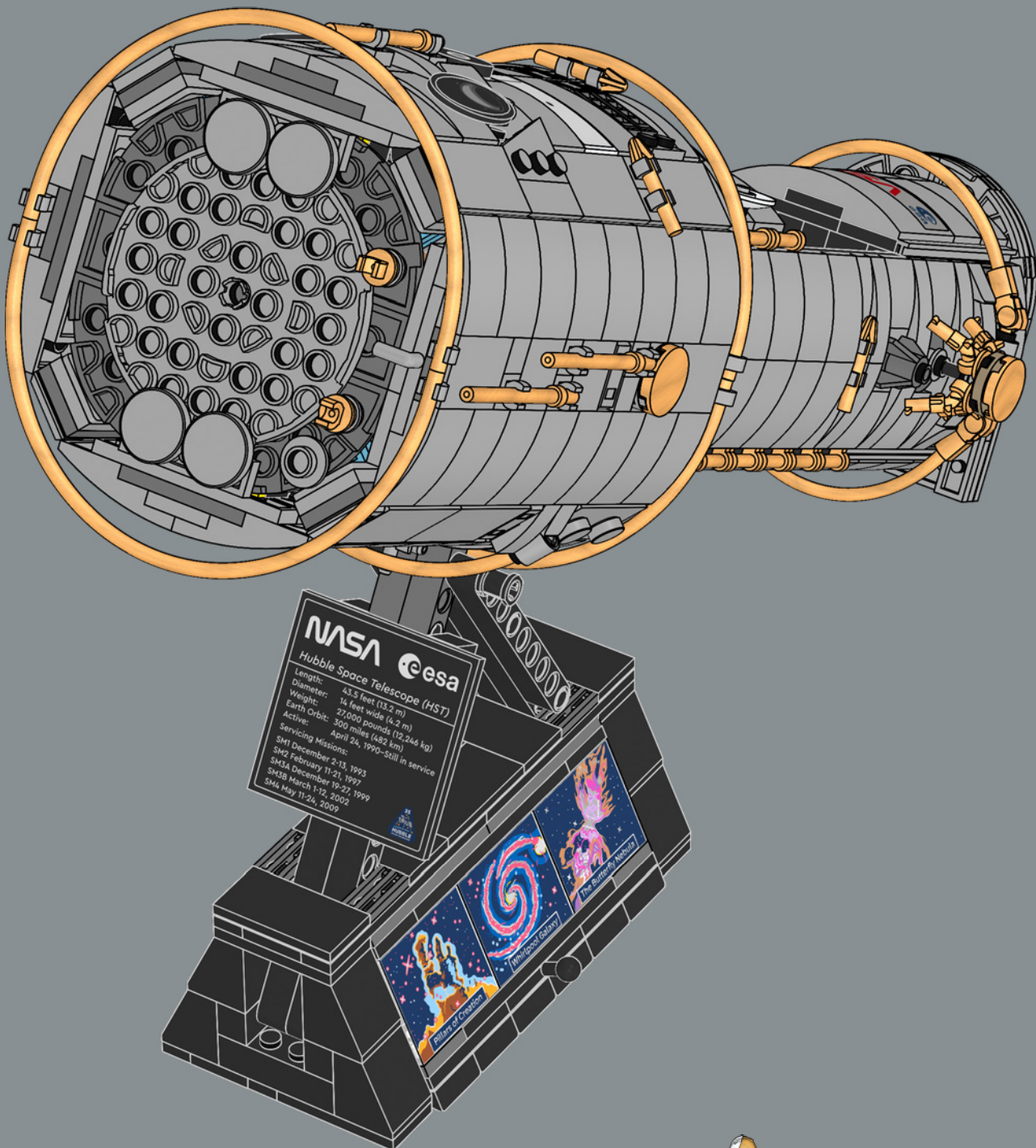
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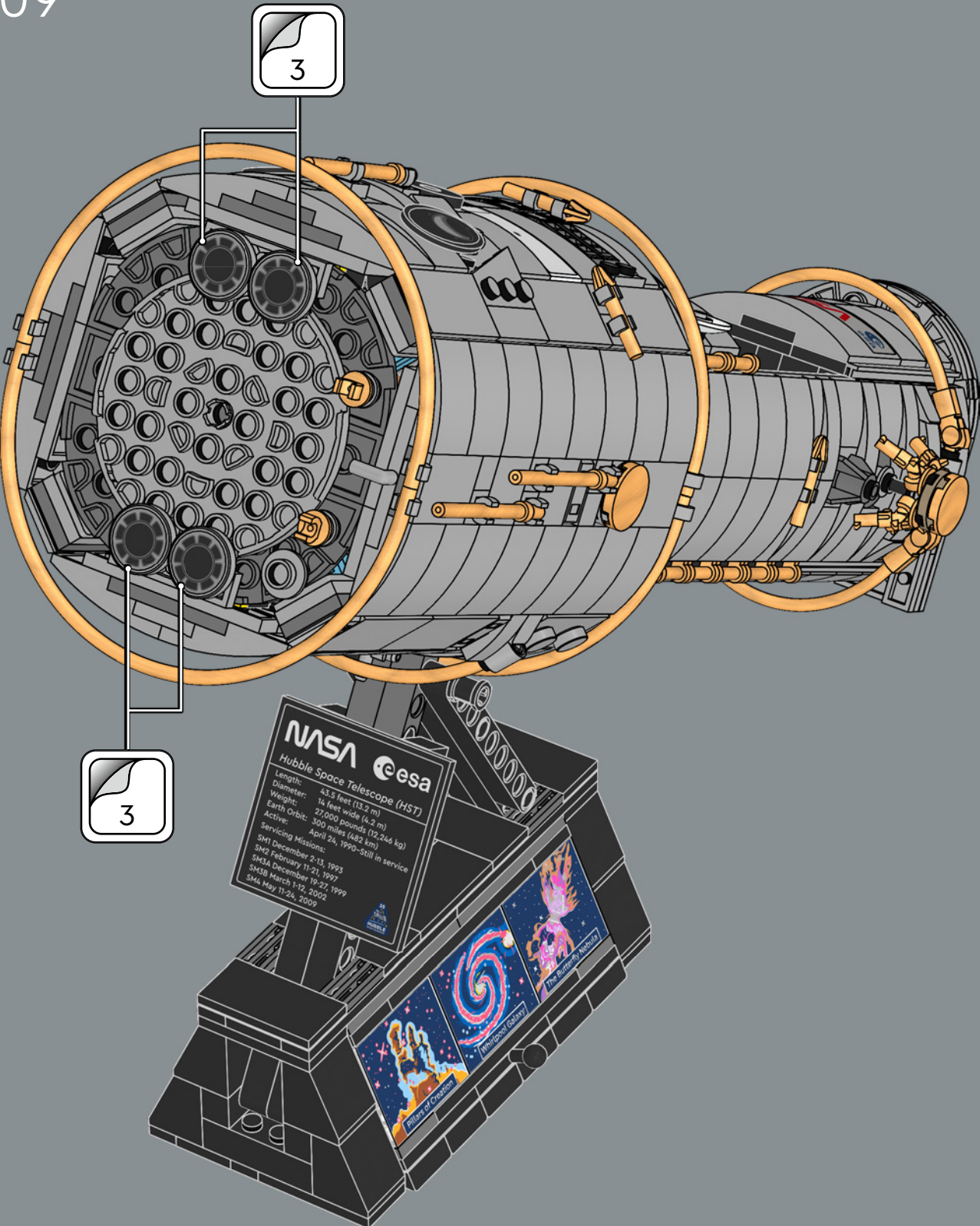


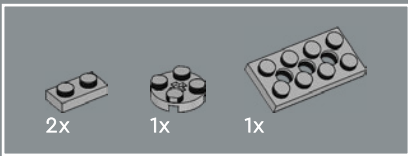


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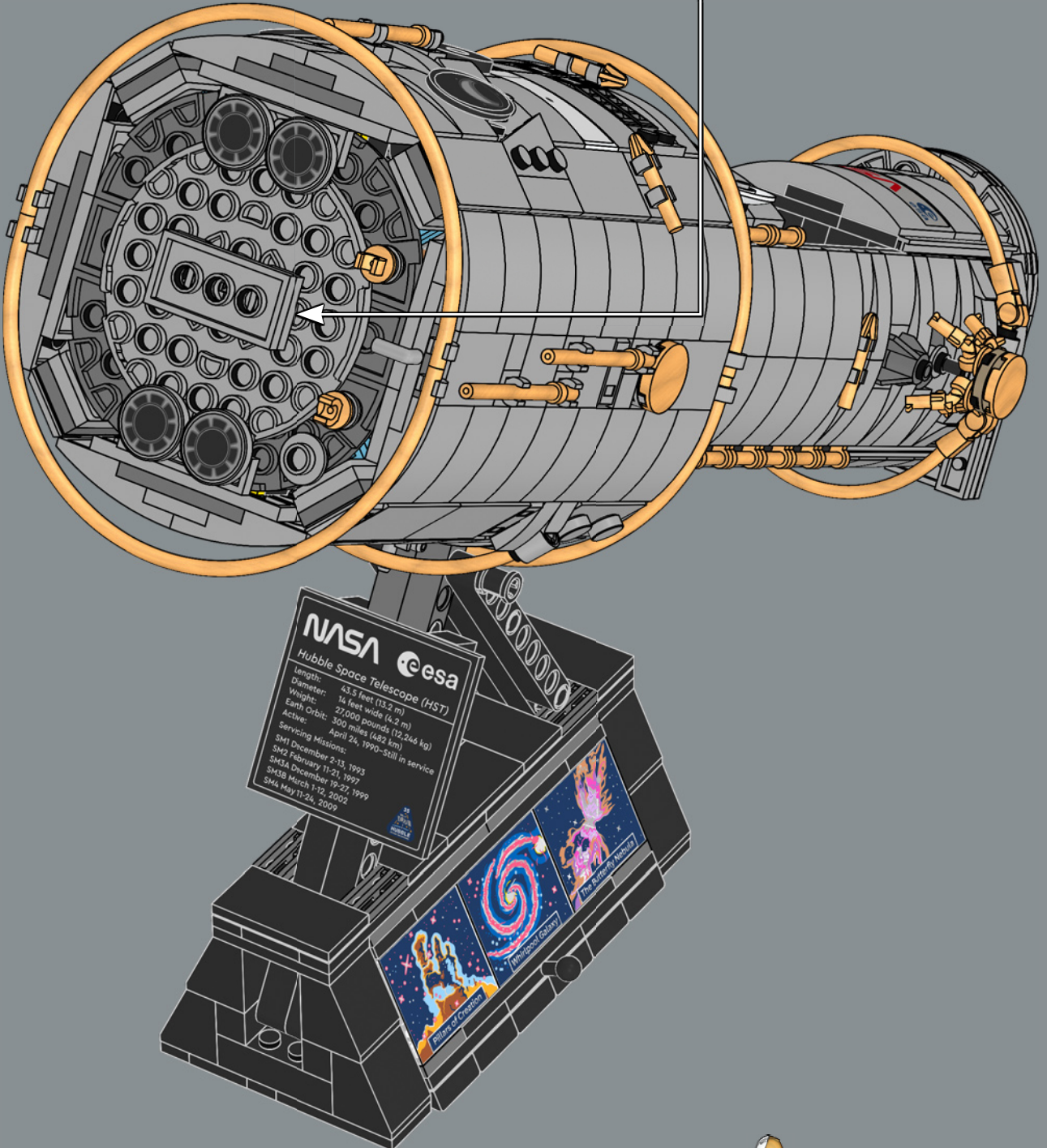
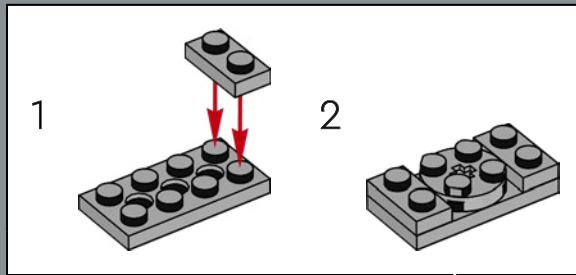
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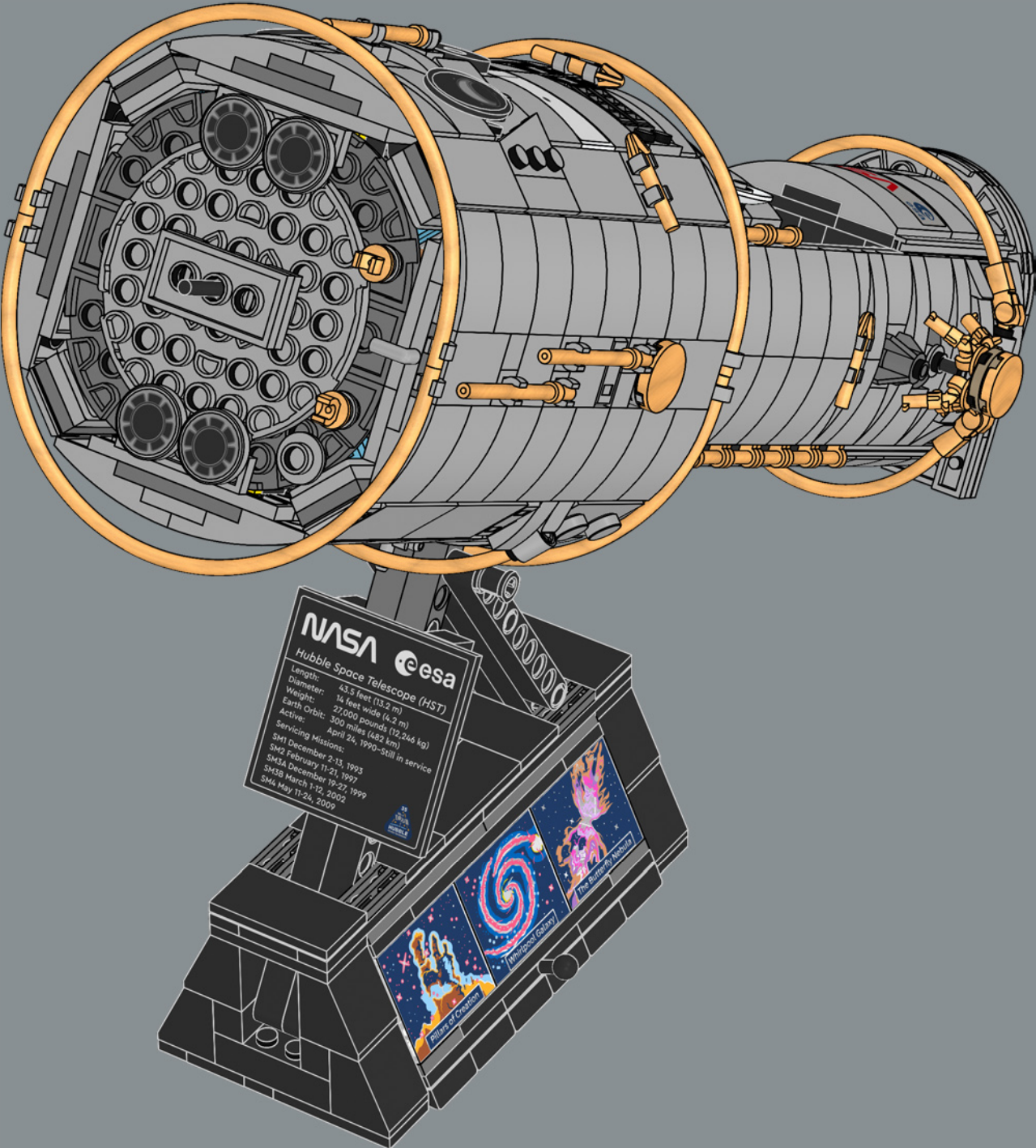


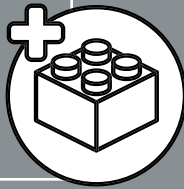
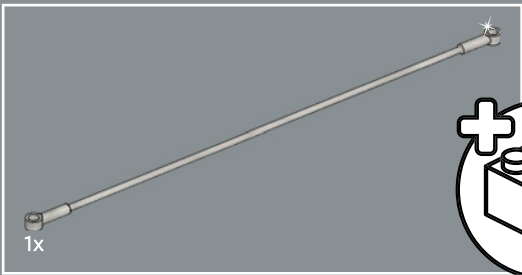
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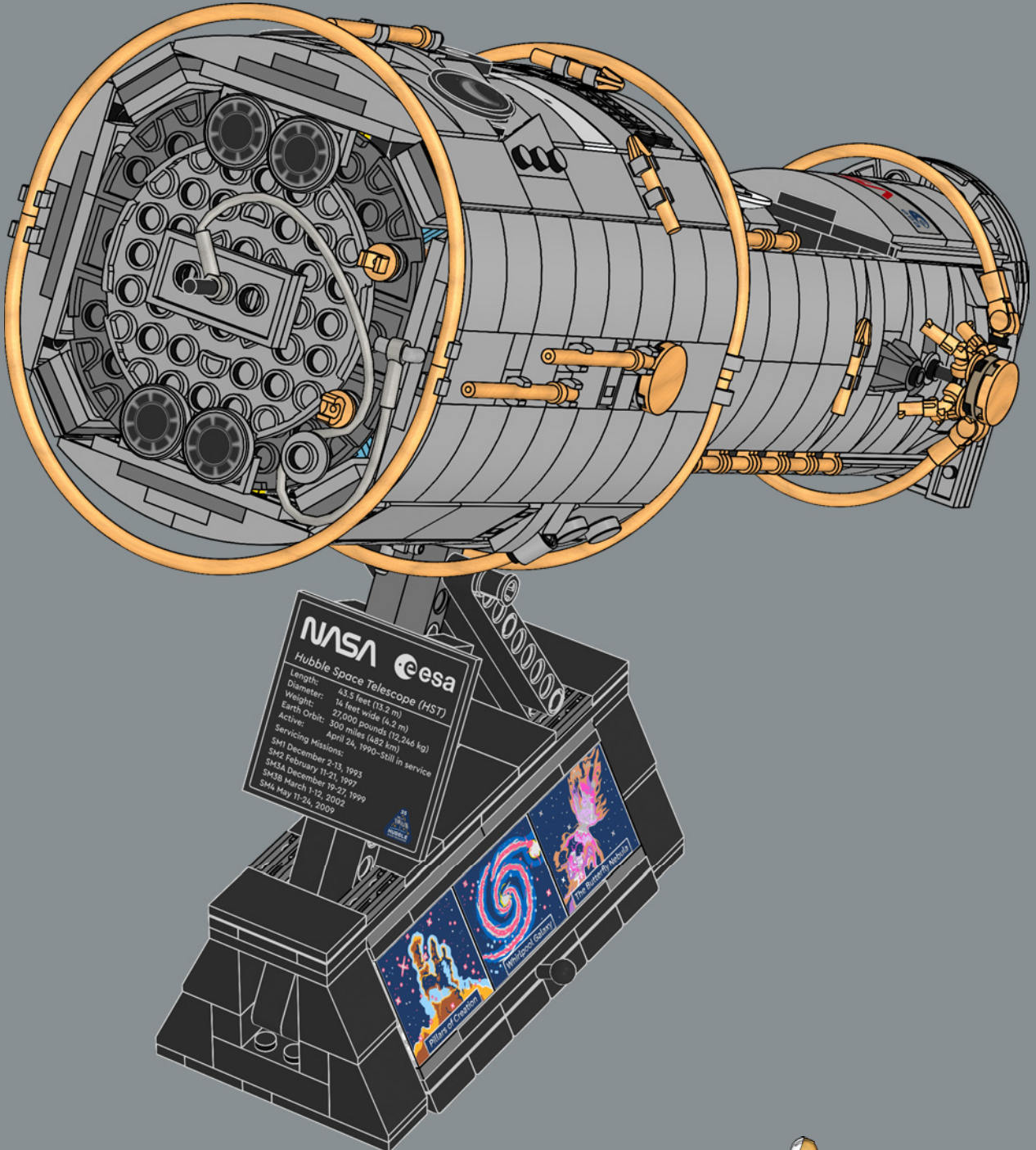


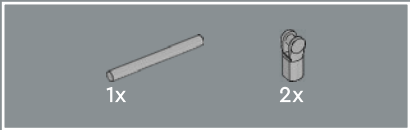
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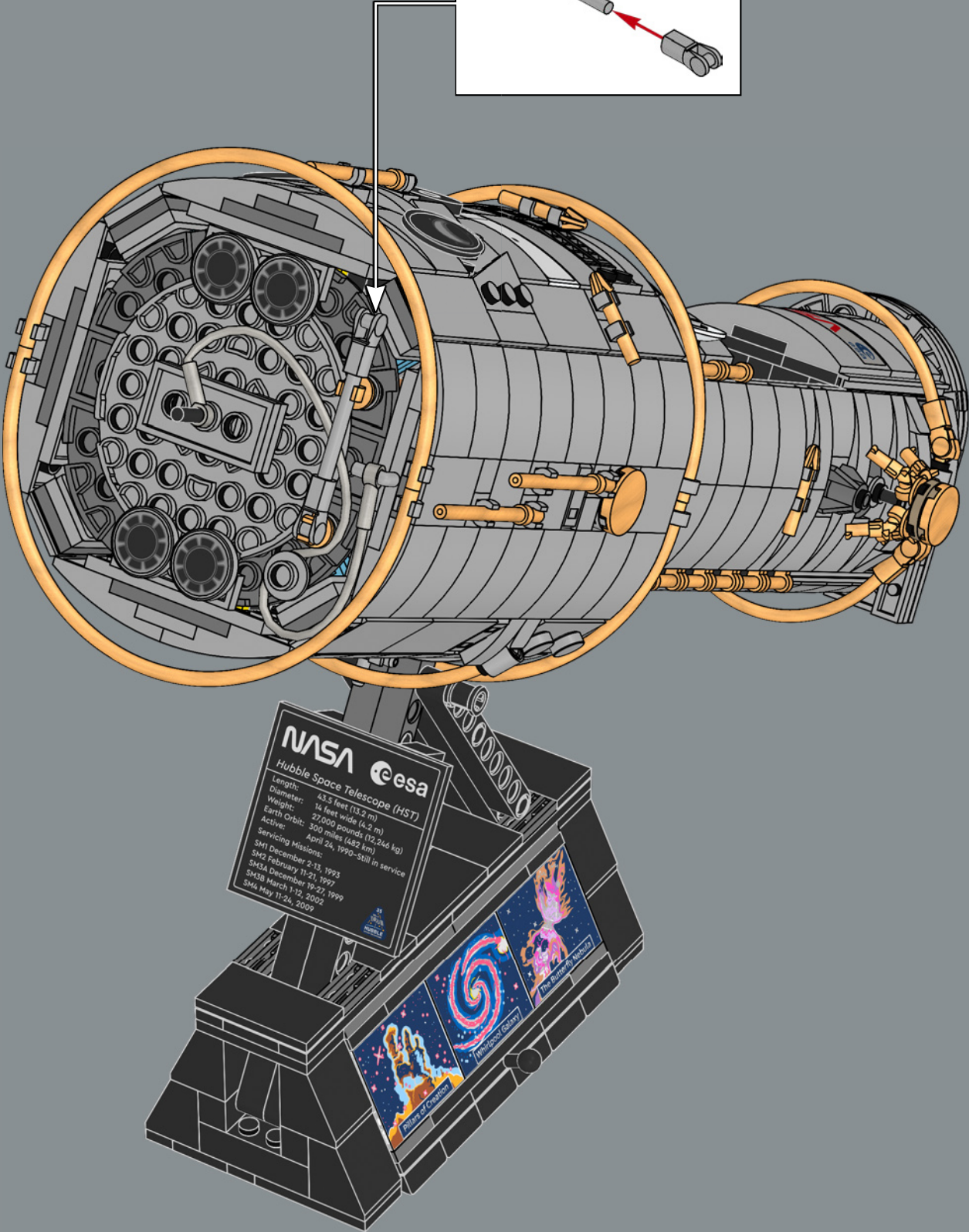
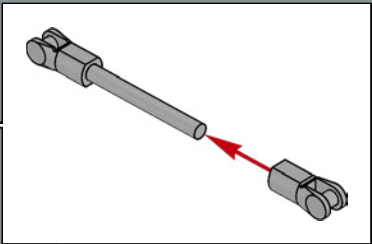


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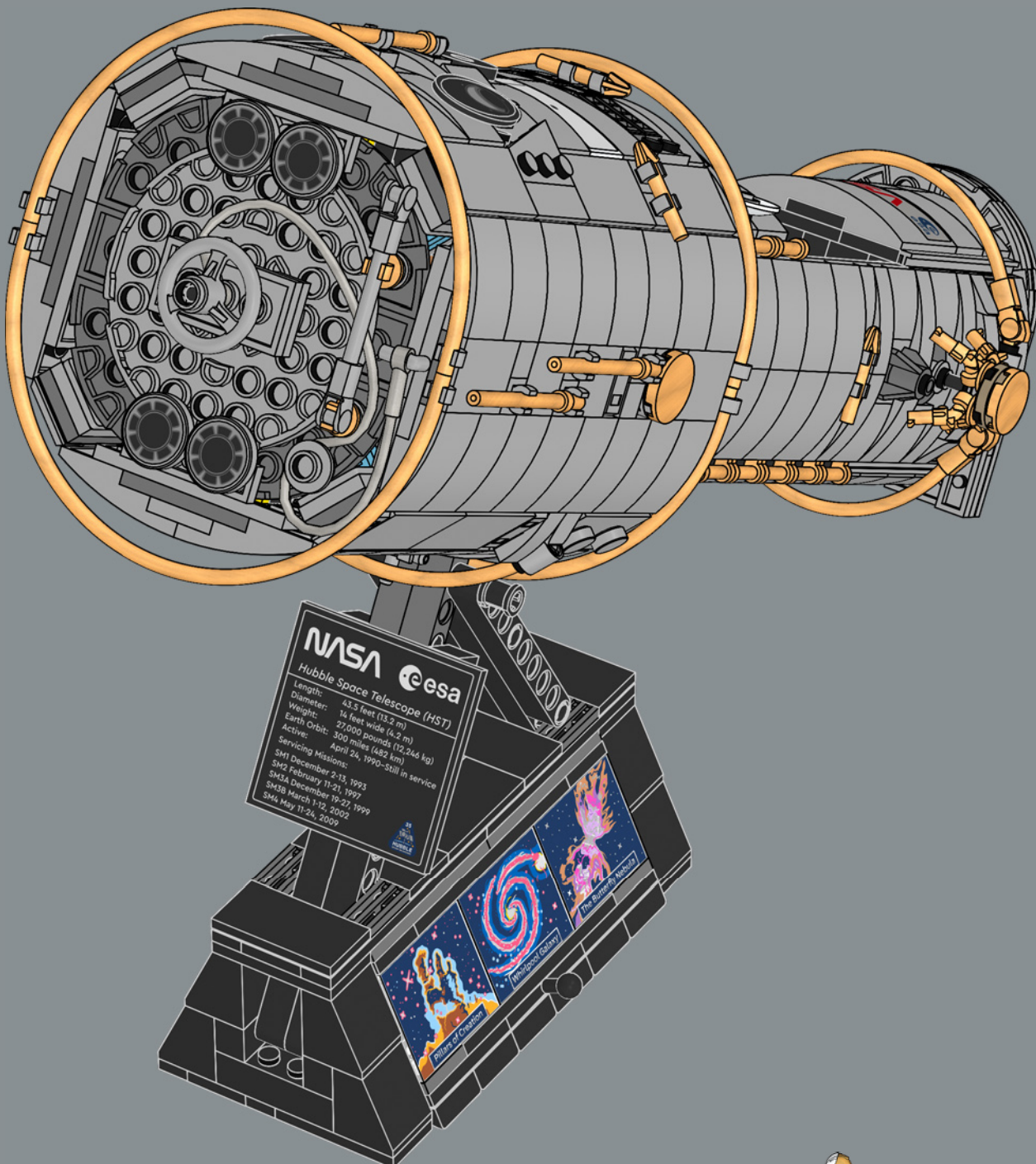
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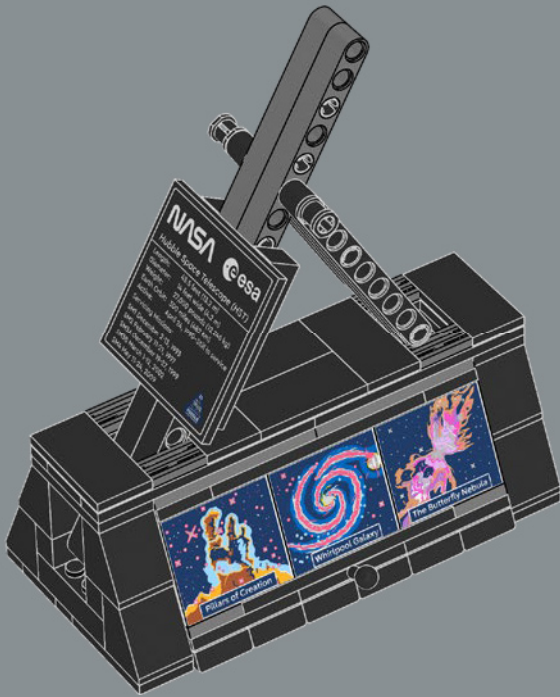
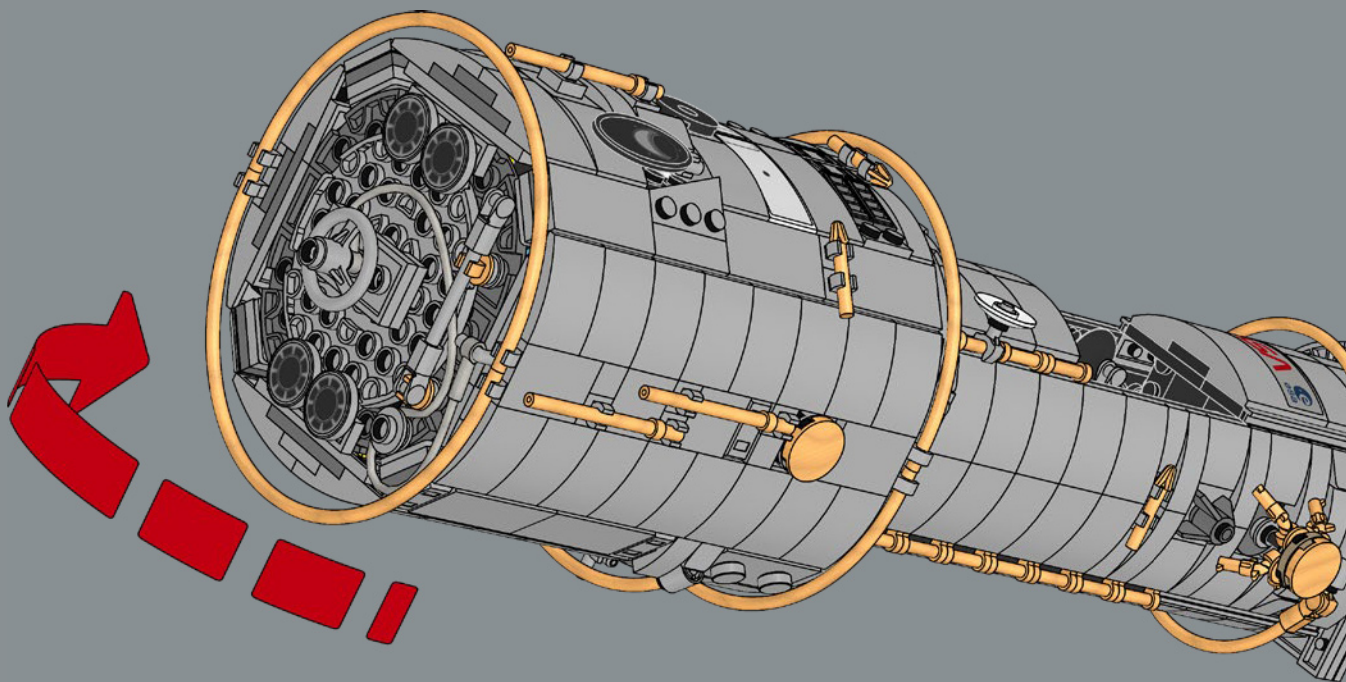


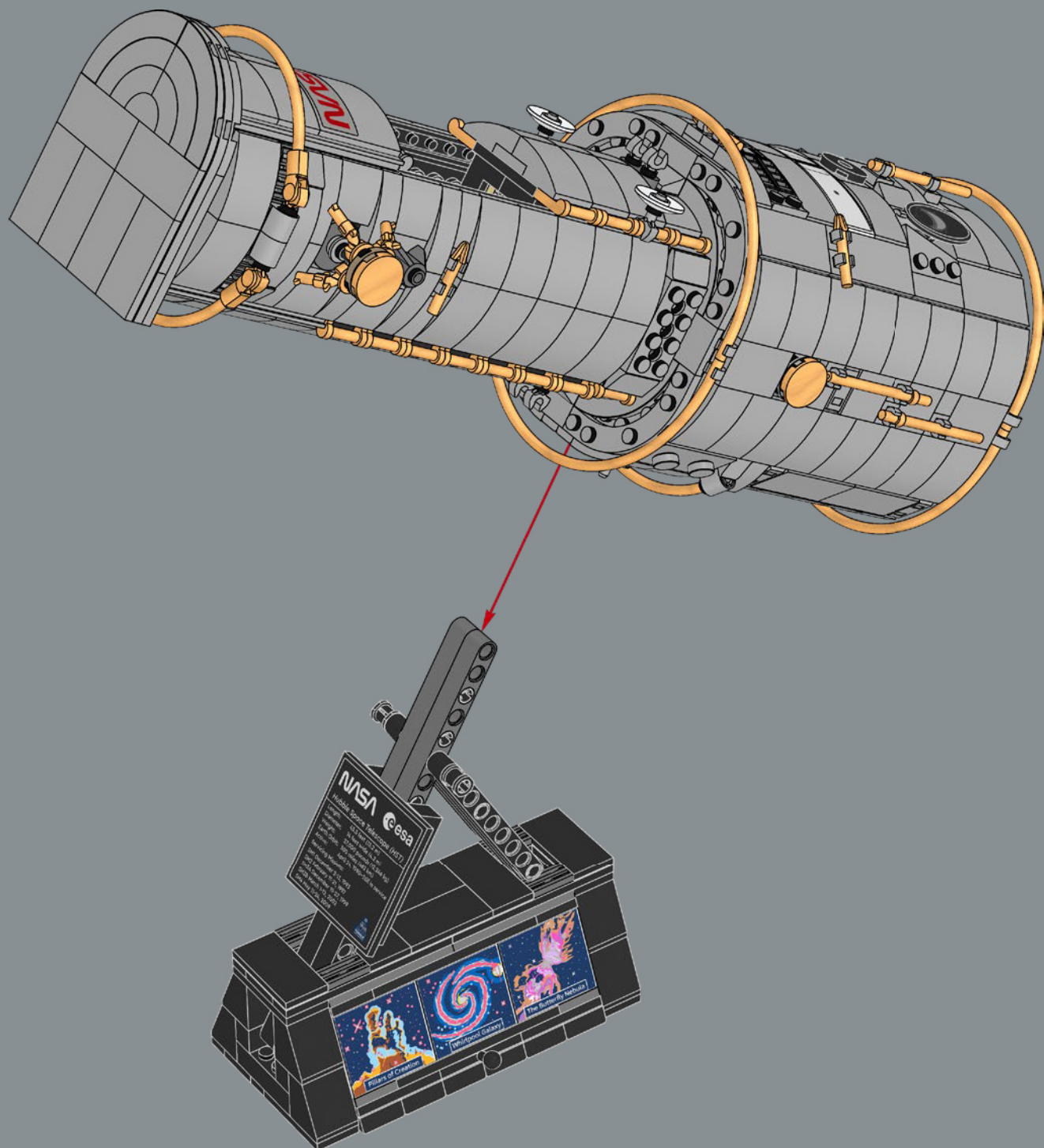


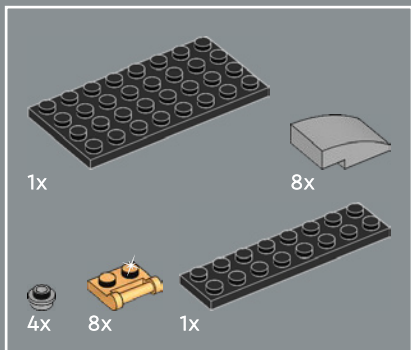
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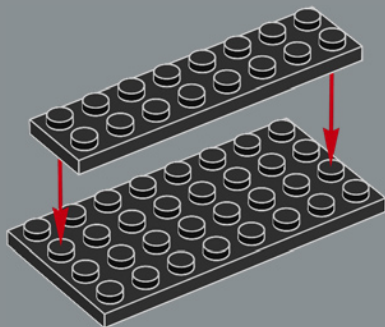




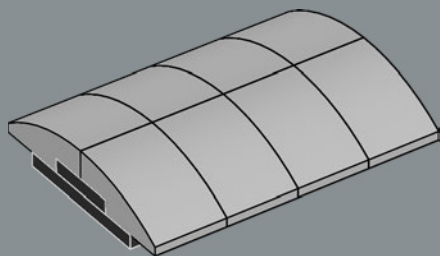


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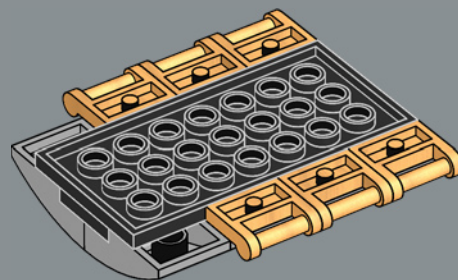
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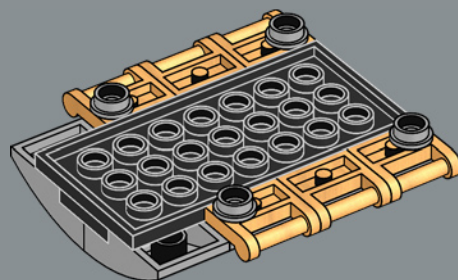
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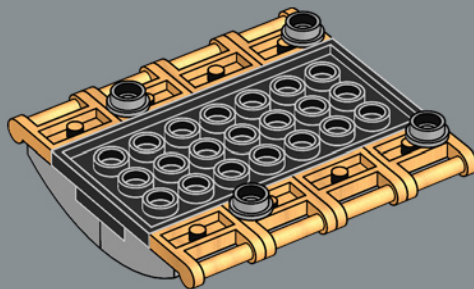
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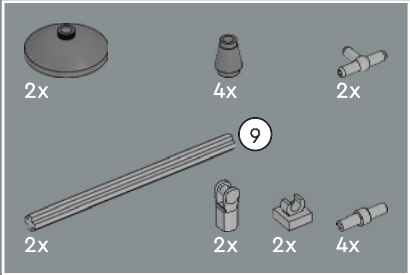
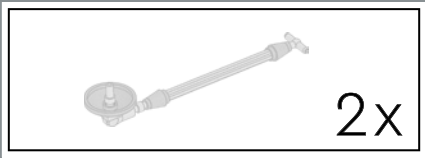


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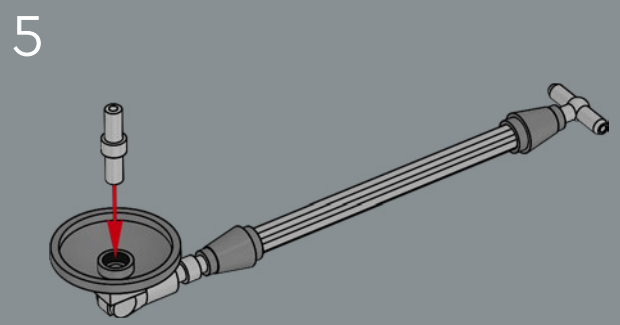
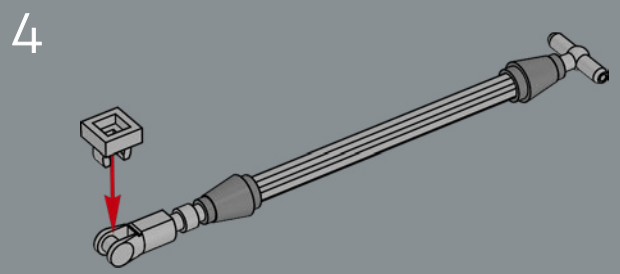
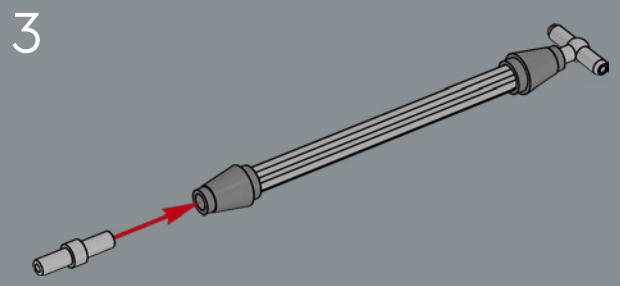
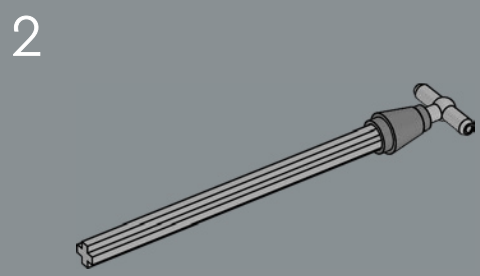
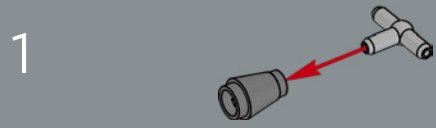


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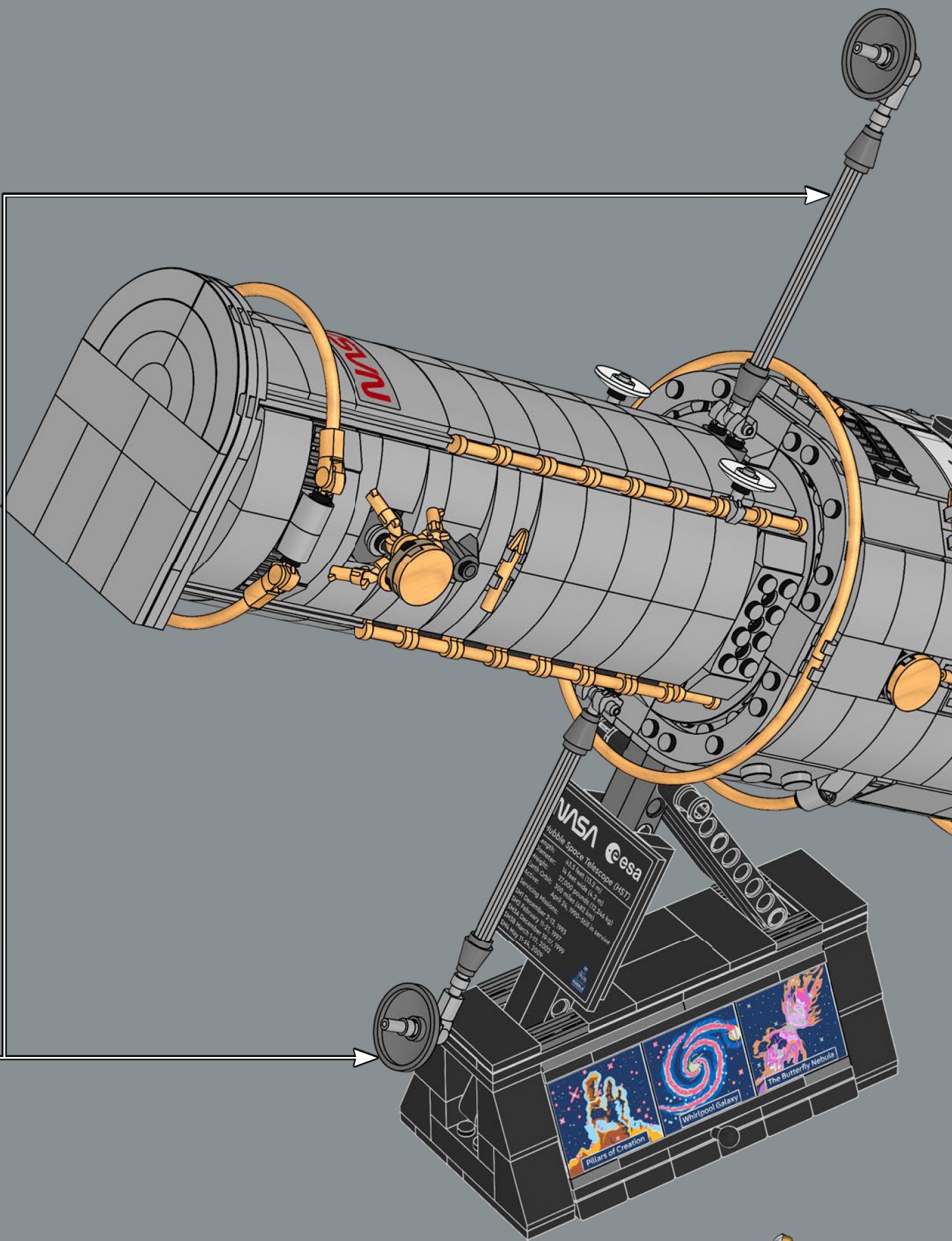


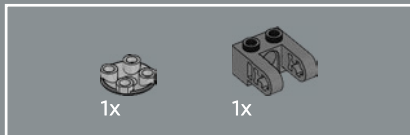
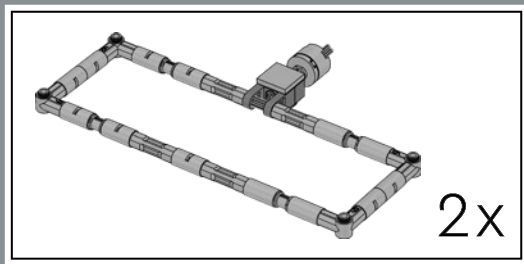
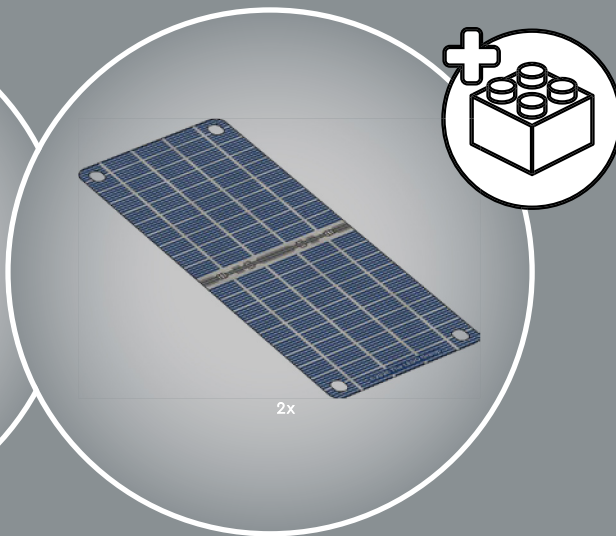
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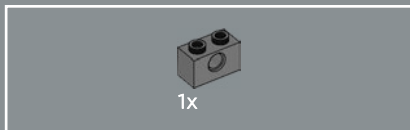
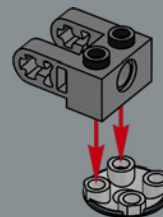
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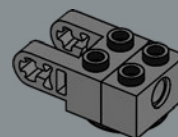


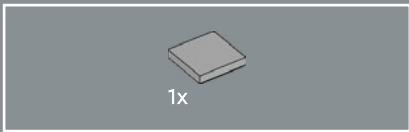


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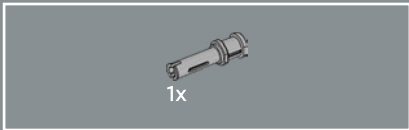
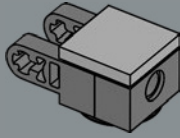


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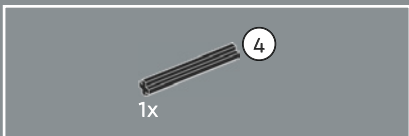
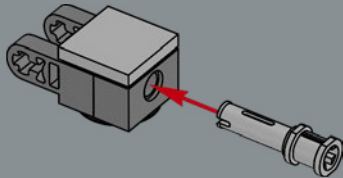




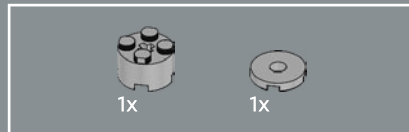
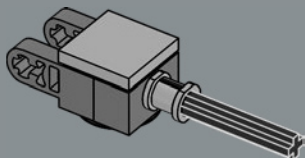
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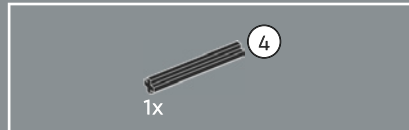
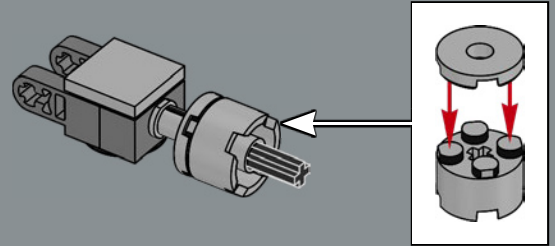
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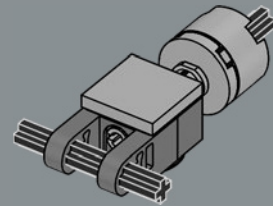
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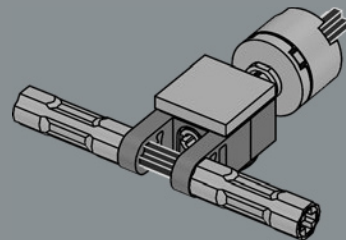
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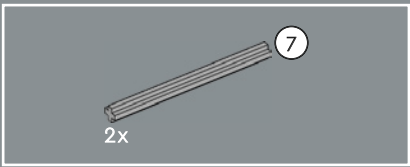


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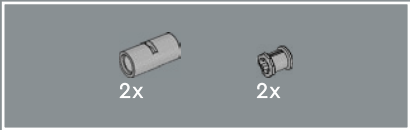
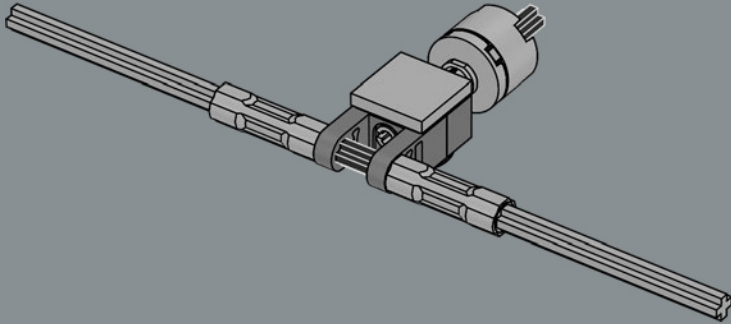


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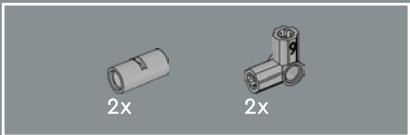
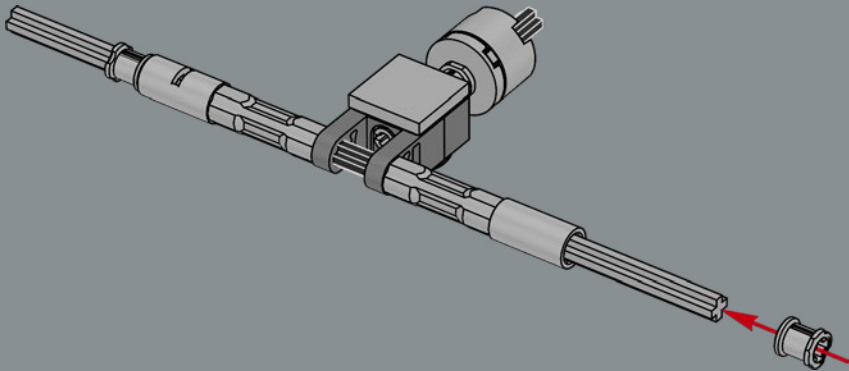




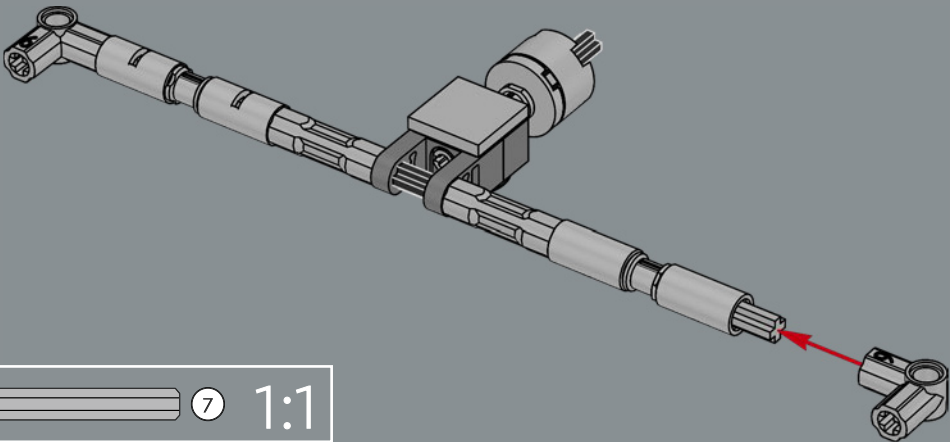
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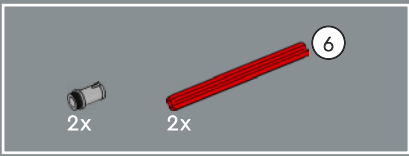


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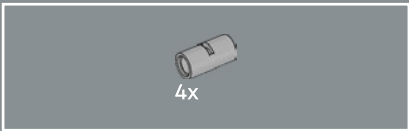
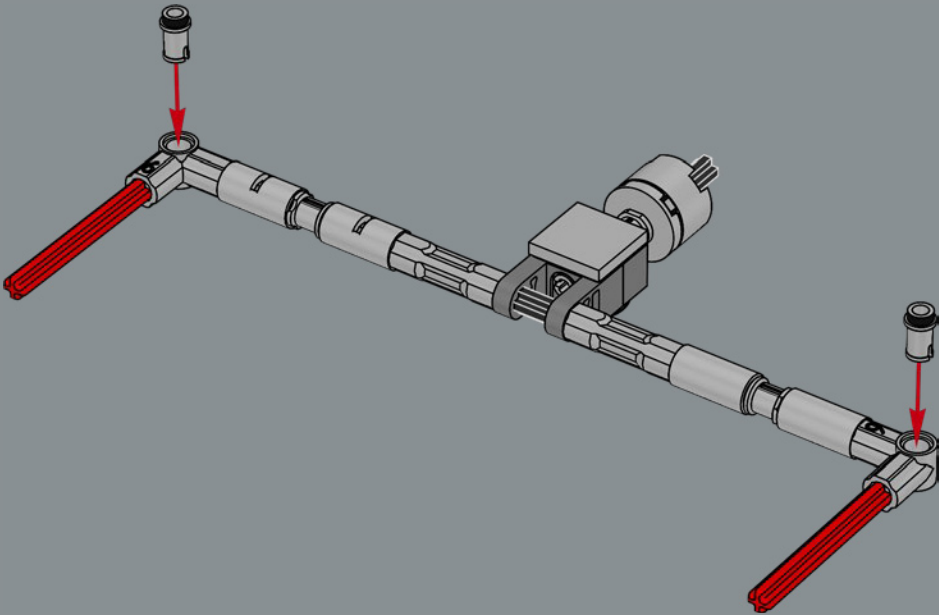


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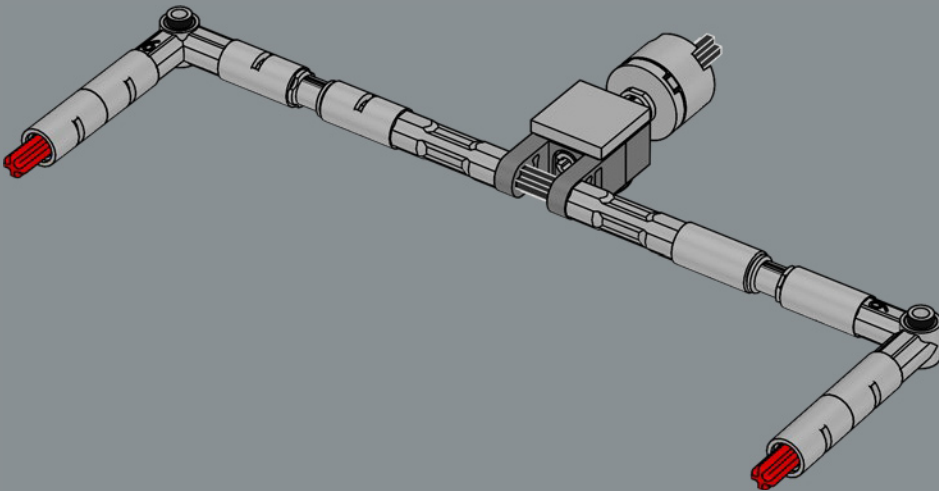


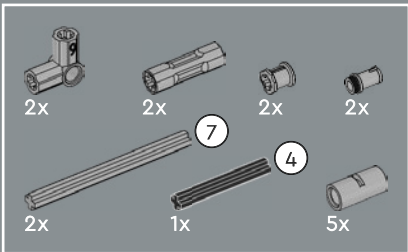
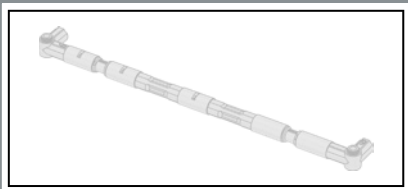


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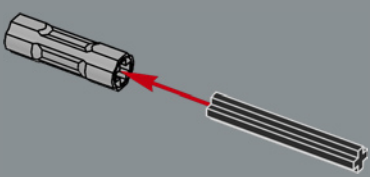
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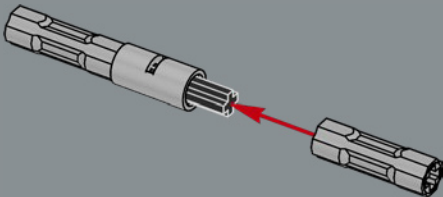


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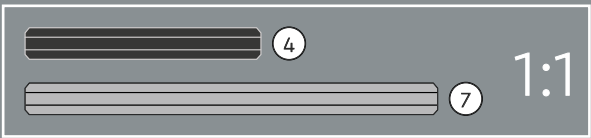
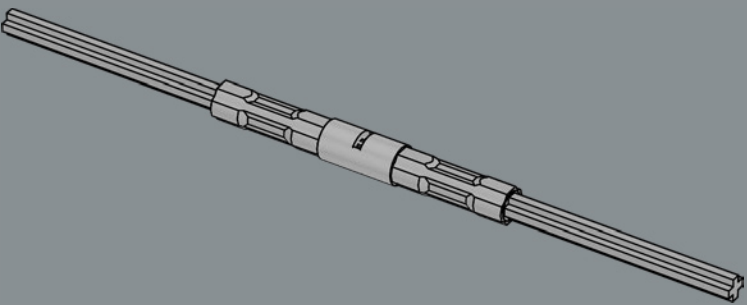
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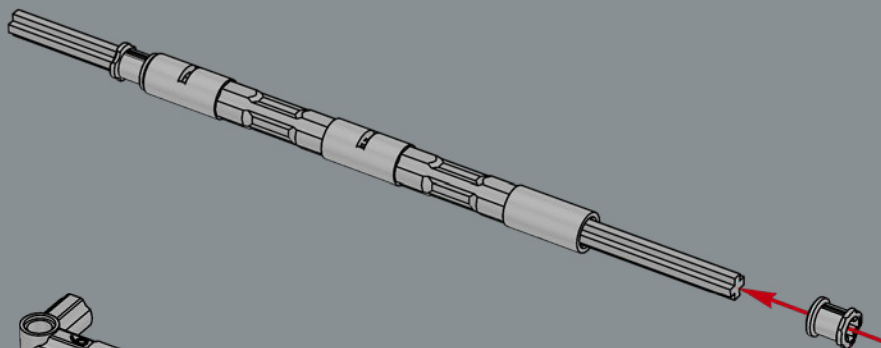
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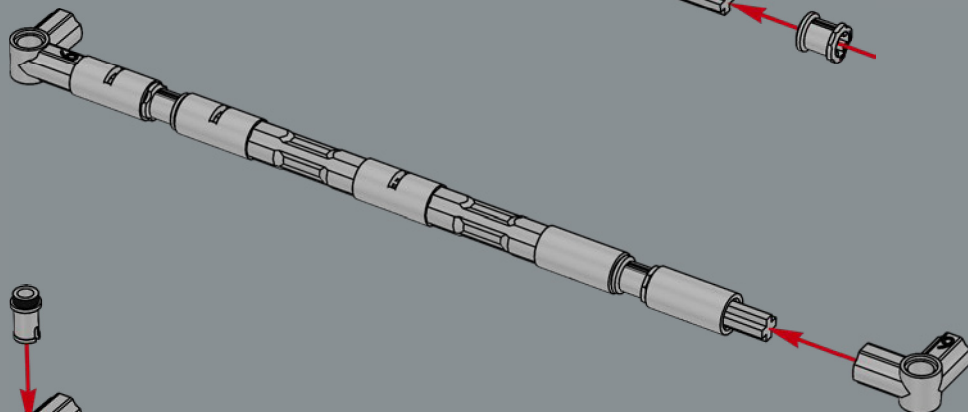
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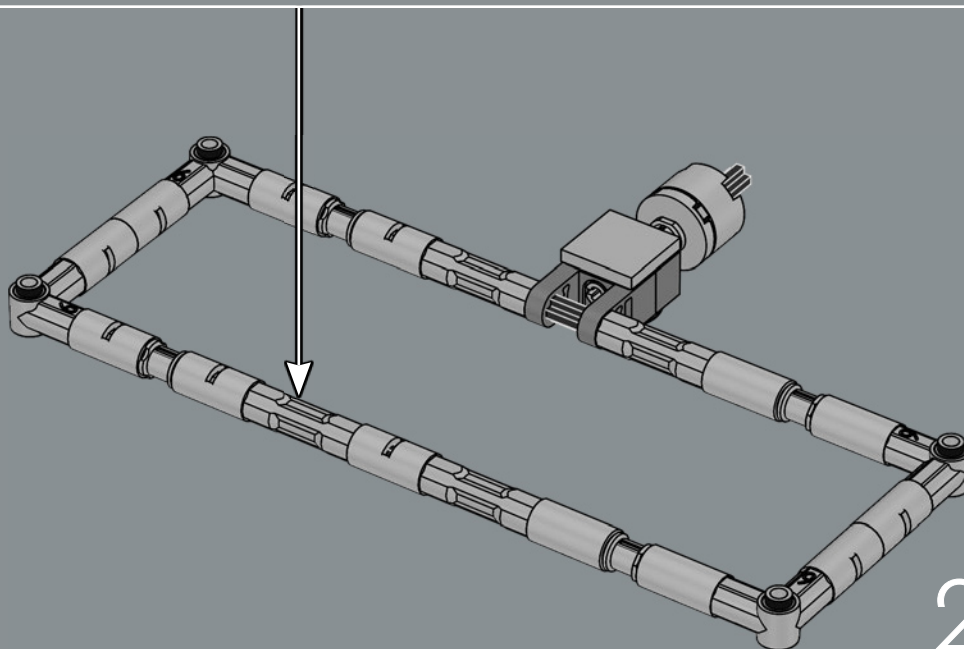
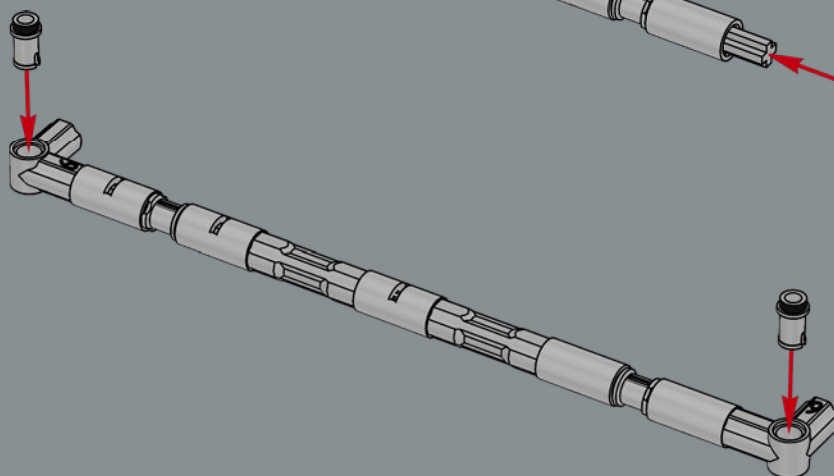
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5

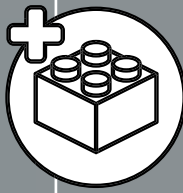
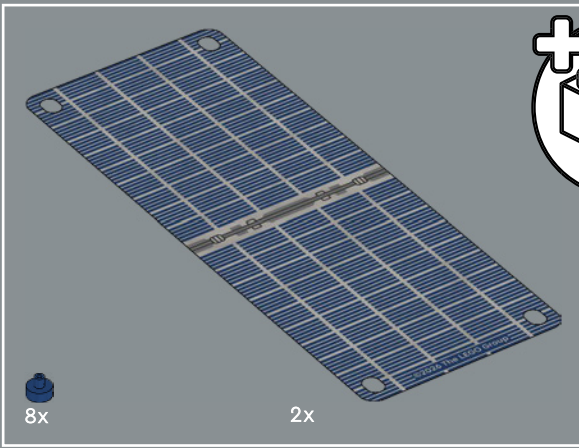


6



2x

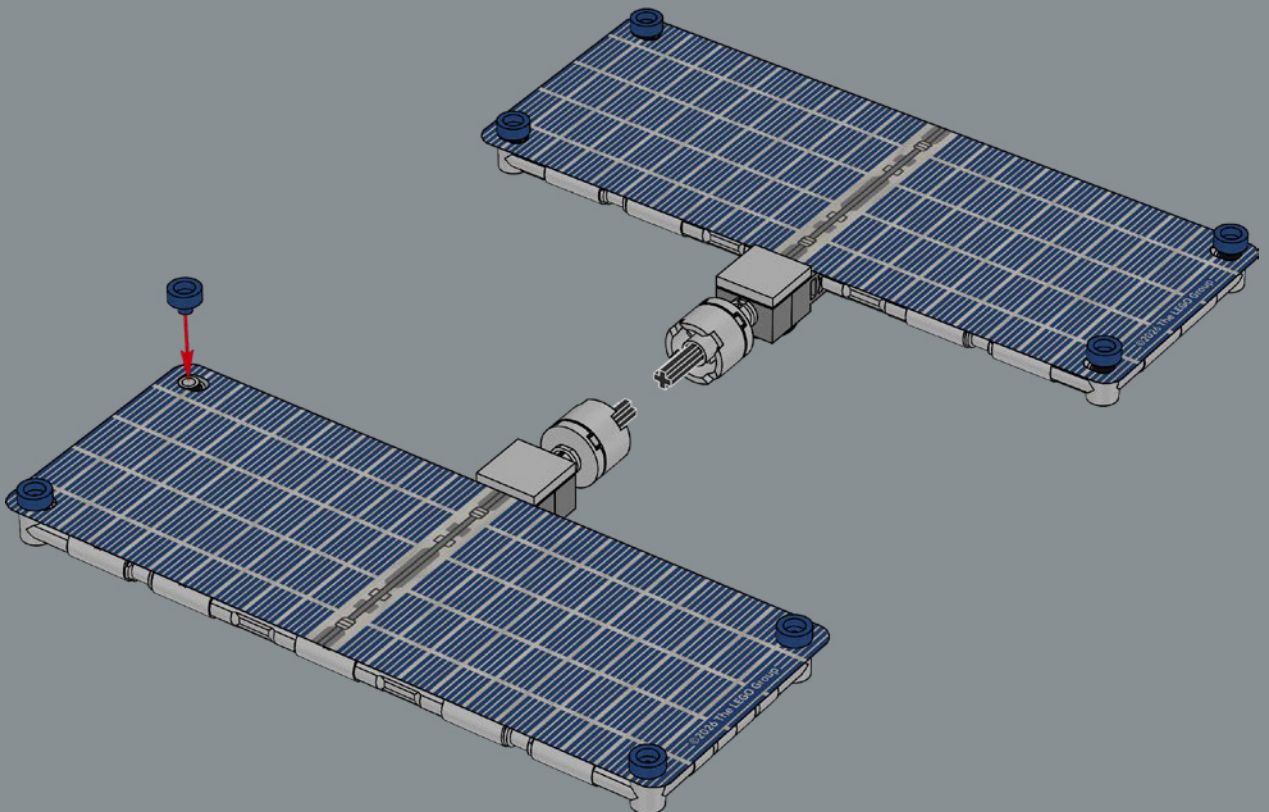


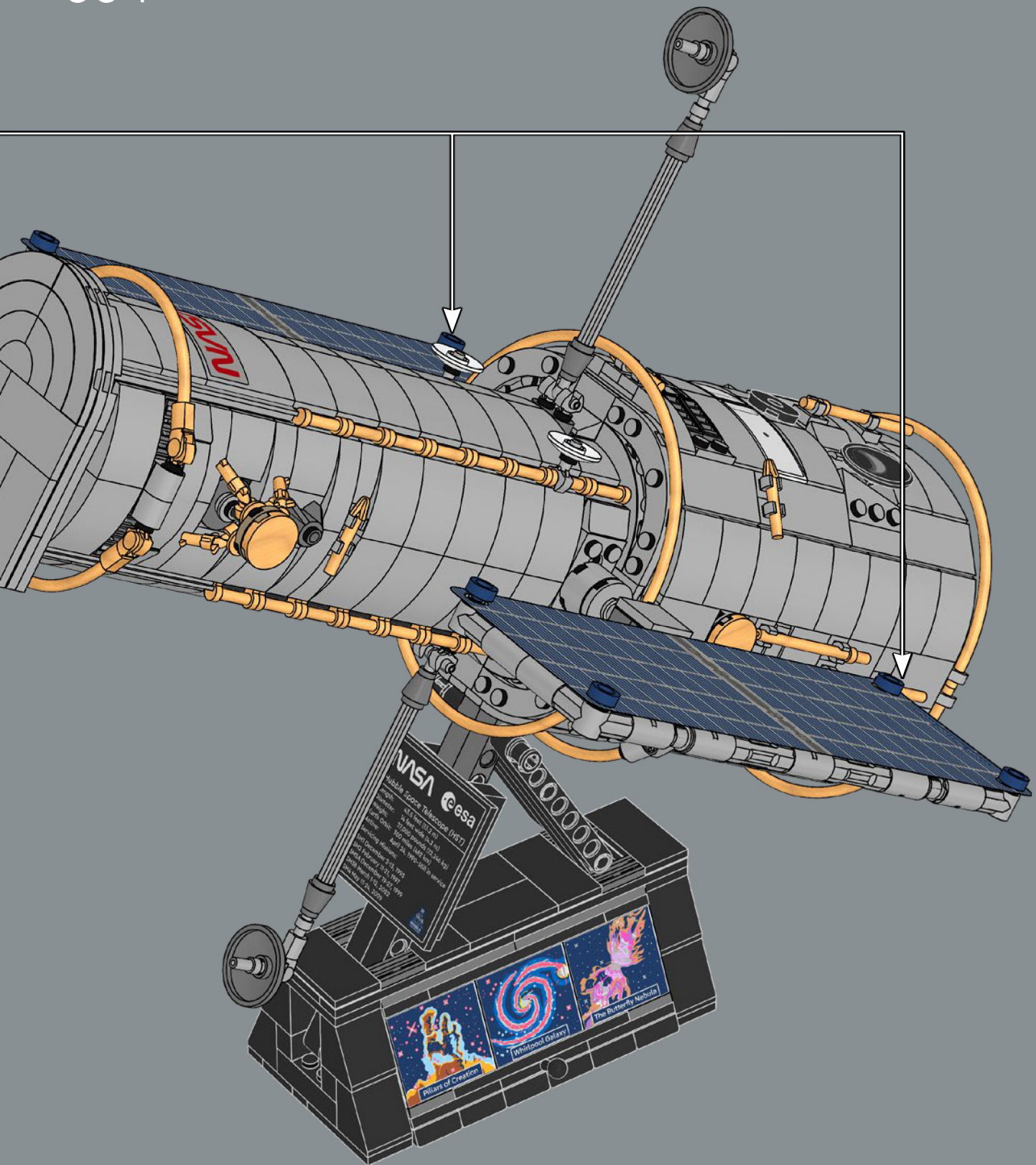


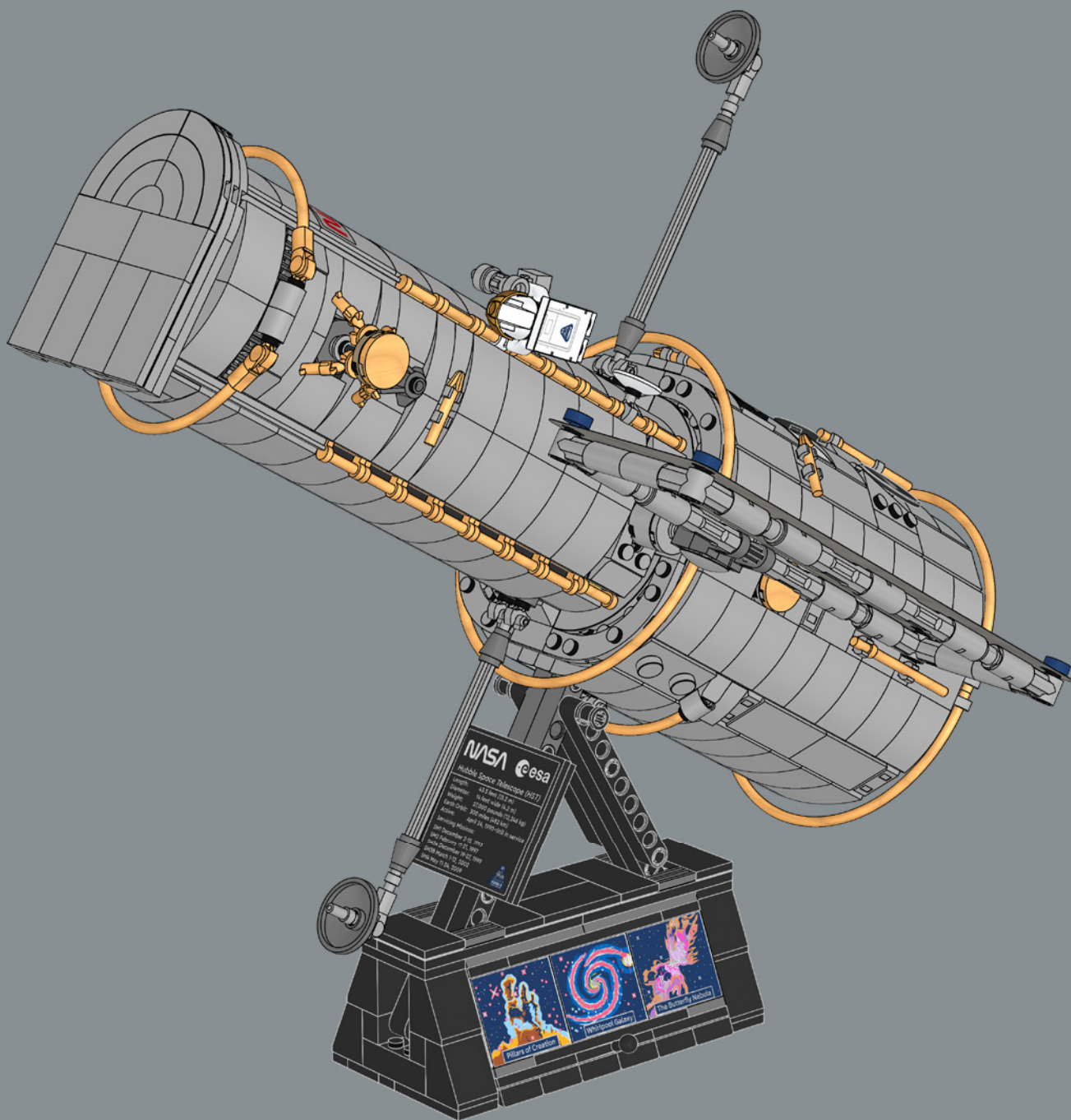
Die Solarpaneele des Hubble-Teleskops wurden zweimal ausgetauscht. Für dieses Modell haben wir die neueste Modellversion gewählt, die im Rahmen von SM3B im Jahr 2002 installiert wurde.



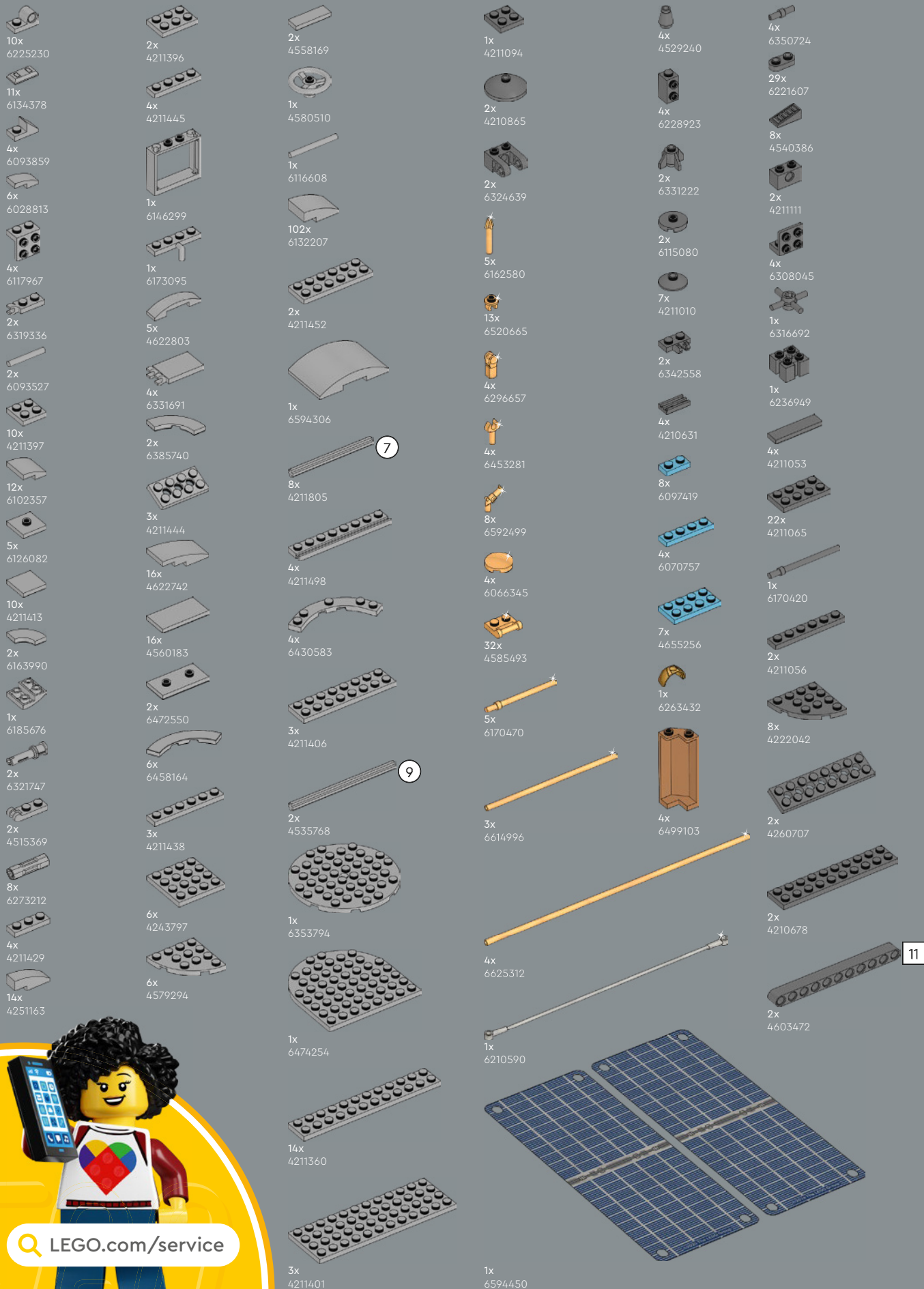
333













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